Desoutter

Industrial Tools



100 YEARS OF INNOVATION

More Than Productivity

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www.desouttertools.com



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QUICK TO GET

Product brochures, exploded views, certificates of conformity, CAD files…
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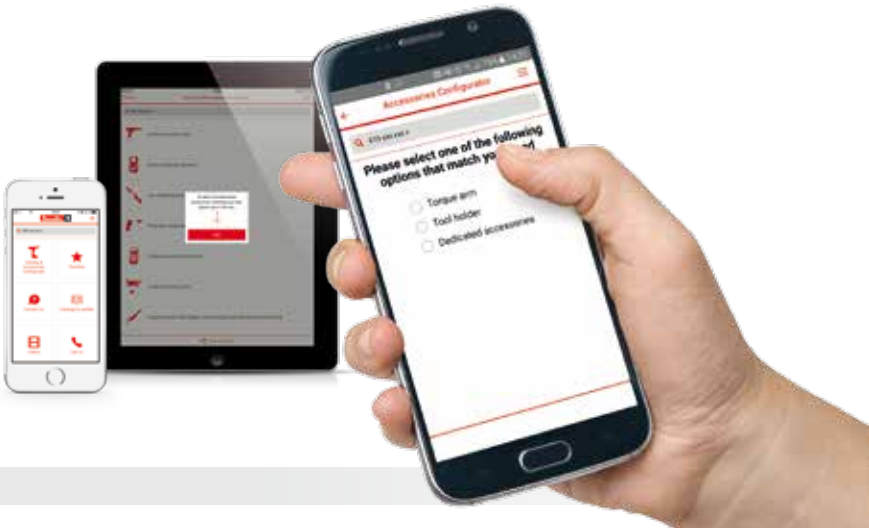
GET TO KNOW DESOUTTER INDUSTRIAL TOOLS
from another perpective and stay in touch with us!

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Desoutter ASSISTANT

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Unless specified all inlet threads are BSP or NPT dependentv of market

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100 YEARS OF INNOVATION



In Desoutter's earliest days one hundred years ago, who would have imagined that it would become today's global leader in its sector? How many industrial companies can claim, like Desoutter, to have weathered the years with such success, never forgetting the values that have formed the foundation of their prosperity?

This one century of existence would not have been possible without that drive for innovation that characterises our company, without that perpetual determination to evolve along with the changing world around us, always acting with vision to anticipate the needs of tomorrow.

This longevity is also the fruit of dedicated devotion on the part of all those employees who have shared their ideas, their skills and their technological expertise in order to turn that thrust for innovation into reality and to give it meaning.

But this history is also - and primarily - that of our customers and partners who remain the sole reason for our existence. It is for them and alongside them that we strive for perfection day after day, and our intention has been to pay tribute to them in the name of this shared success by compiling some of their testimonials in this book.

Together we have written the beginning of a great story. And together we will continue to move forward, to look to the future with the same ambition: always to offer "more than productivity".



Philippe Artzet,
President





1914 Foundation of Desoutter

First Duralumin artificial limbs are created



1918 Foundation of Georges Renault

GEORGES RENAULT

Spare parts for portable pneumatic tools are manufactured

1930

First flight of the Desoutter Mk. I



1960

Patents approved for torque controlled angle wrench



1977 Scan Rotor is founded

SCANROTOR

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Find more on what customers tell
about their Desoutter's customer experience in the

Desoutter's anniversary book !



1990
First models of Georges Renault transducerized tools :
SE hand held tools with the Case 40 controllers

Early 1990
First models of Tech-motive transducerized tools : the 37-Series with the CS40 controller

tech-motive tool



1998
CVIS controller series

2005
Creation of Seti-Tec Line

Advanced Drilling Units



2012
E-Pulse low torque reaction Electric tool



2015 • 2017
EPB Wireless transducerized battery tool



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More Than Productivity



Desoutter is your single source of electric and pneumatic tool solutions, covering a wide range of assembly and manufacturing processes in the motor vehicle, aerospace, general industry and light assembly sectors

Desoutter has a long history of producing high-quality industrial tools. Today, the scope of the activity combines a global offering with a widespread local presence

The reason behind this approach is simple: our customers, who include many of the world's largest and most successful manufacturers, want worldwide access to a global portfolio of assembly and manufacturing solutions

With Desoutter, we provide you more than productivity

FOCUSED
ON YOUR OBJECTIVES…

Industry hates risk. And so do we.
So we work with you to eliminate cost, quality and performance risks from your production lines.

Optimize your investments

Your production lines are some of your company's most important investments. The quality and performance of Desoutter industrial tool solutions enable you to optimize your return on investments by producing more in the same cycle time. Our airline systems, for instance, keep our pneumatic nutrunners spinning at exactly the right speed and power, saving you precious seconds for each operation.

Raise productivity

Good ergonomics makes good economic sense. Not only are Desoutter tools designed to reduce operator stress factors, such as vibration and noise, they also take into account the relationship between the operator, the tool and the process. Our experts work with you to obtain long-term gains in productivity and safety, while improving cost, quality and cycle times.

GLOBAL SOLUTIONS
YOU CAN BUILD ON…

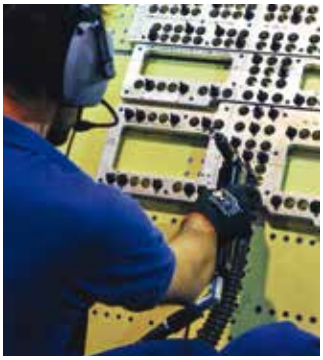
We know that finding the best solution is about much more than just picking a new tool. That is why we start every project by opening our ears, not our catalog.

Process optimization

Producing high-quality products requires high-quality processes. That is why many of the world's major motor vehicle, aerospace and appliance manufacturers rely on Desoutter. Each Desoutter solution is tailored to your exact needs. Our experts propose solutions that deliver a quantifiable return on investment, whether in terms of productivity improvements, quality gains or safety improvements.

Worldwide coverage

Desoutter combines global reach with local expertise. To ensure the smooth running of Desoutter solutions in your factories, all our local teams are trained to the same high level of expertise and service. Each team is in direct contact with the Desoutter area application and customer care center for your region. Together they ensure that solutions are implemented to worldwide standards, but in compliance with local criteria.









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EXPERTISE

YOU CAN GROW ON…

From motors vehicles to appliances, planes to construction machines, electronics to energy – there is a Desoutter air powered and electric tool solution for you.

Covering all segments

Motor vehicle industry

A wide range of tool solutions for vehicle makers, tier one suppliers and linebuilders. Solutions include fixed systems for powertrain assembly and handheld solutions for final assembly processes.

Aerospace

A long history of providing tools solutions to aerospace companies. We cover a wide range of their needs, from airframe and engine construction to system assembly.

Customized solutions

Our Applications Centers are the symbol of our renowned flexibility. As comprehensive as our catalog is, we know that sometimes you need a tailored solution. Our Application Center engineers adapt existing solutions to your requirements and develop your own solutions. They are experts at developing Six Sigma tools and error proofing.

PEACE OF MIND

YOU CAN COUNT ON…

Our support services keep your processes operating at maximum levels – and leave you to focus on your core business.

Genuine Desoutter parts

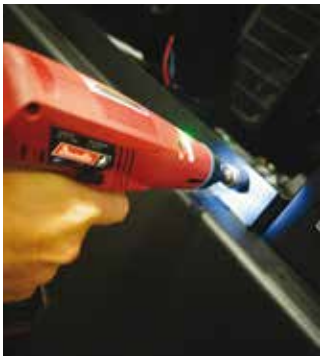
Genuine Desoutter parts are the only parts designed and engineered specifically for Desoutter tools. They ensure that our tools always operate at their best. Moreover, for a lifetime of satisfaction, we always use genuine Desoutter spare parts when performing maintenance and repairs.

Proactive logistics

When your operations are global, it is essential that your logistics are too. Our centralized inventory and warehousing system is highly responsive. We proactively manage our production to ensure a reliable supply of the products and parts you need. The majority of the solutions in our catalog can be shipped to you in three days, no matter where you are located. Next-day service is available in many markets.









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Desoutter Smart start

High performance, right from the start

Start-up

1 Installation
- Desoutter takes responsibility
- Avoid loss of warranty

2 Programming
- Experienced technicians
- Optimised programming / setup





3 Functional test
- Ensures tool performance
- Preliminary acceptance

4 Station backup
- Data safety for fast restoring
- Easier line rebalancing



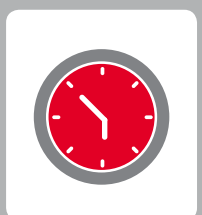


5 Capability test
- Proves process capability
- Final acceptance

6 Operator training
- Correct handling of tools
- First level of problem solving

7 Production monitoring
- Supports production ramp up
- Minimises production risks

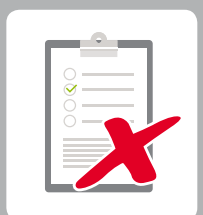
Minimising your risks



Avoid delay on the production plan



Avoid production ramp-up issues



Avoid loss of Warranty

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Performance validation



Use data collected from the controllers after start up and during full production

- ☑ To get formal internal handover from Project to Production and Maintenance
- ☑ To Detect programming optimisation
- ☑ To Improve operators performance
- ☑ To Support on root cause analysis

Contact your local sales representative for more information

Standardisation for Global Customers

- ☑ Streamlines and optimises the Start-up process globally
- ☑ Allows efficient programming to be replicated worldwide
- ☑ Minimises Start-up risks



Discover our Service solutions videos

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Desoutter Tool Care

Maintenance solutions

Focus on tools reliability

Basic Care

Increase your tools performance

Preventive Maintenance labour	✓
Preventive Maintenance wear out spare parts included	✓
Calibration	✓
Repair at Desoutter workshop	–
Repair spare parts included*	–
Phone support	–
On-site Repairs	–
Maintenance KPIs	–
On-site production support	–

BENEFITS Fixed Price

- Ensures tools reliability and assembly quality
- Reduces tools breakdown (higher availability)
- Minimises production stoppage risk
- Longer tool life cycle at lower repair costs
- Reduces the Total Cost of Ownership

Smart Care

Streamline your repair process

Preventive Maintenance labour	✓
Preventive Maintenance wear out spare parts included	✓
Calibration	✓
Repair at Desoutter workshop	✓
Repair spare parts included*	✓
Phone support	✓
On-site Repairs	–
Maintenance KPIs	–
On-site production support	–

BENEFITS Fixed Price

- **Basic Care** benefits
- Predictable maintenance budget
- Complete equipment care
- Streamlined repair flow

Peace Of Mind

Focus on your core business

Preventive Maintenance labour	✓
Preventive Maintenance wear out spare parts included	✓
Calibration	✓
Repair at Desoutter workshop	✓
Repair spare parts included*	✓
Phone support	✓
On-site Repairs	✓
Maintenance KPIs	✓
On-site production support	✓

BENEFITS Fixed Price

- **Smart Care** benefits
- Uptime optimisation
- Shorter repair Turn Around Time
- Quick on-site support (problem solving)
- Customer focus on core business

*All spare parts included (except in case of tool abuse or misuse)

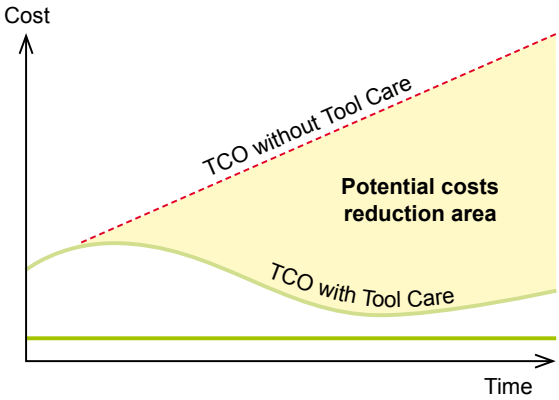
Without a Maintenance Solution…





- … gears wear out prematurely if they are not properly lubricated
- ... worn out components significantly affect the precision of the tool
- … quality assurance of the assembly process is lost
- … choosing to invest in highest tightening technology becomes an ineffective choice

Total cost of ownership (TCO)



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Production support

Increases assembly process performance



On-site technicians

Our certified field technicians are at your disposal to support you with solving on-site issues or assist in identifying process improvement opportunities



Performance validation (PV)

Aims to identify improvements opportunities and predict eventual issues, ensuring the assembly system performance at full production conditions



Certification training

Develop your technicians knowledge on troubleshooting and assembly techniques and improve the interaction with our technicians when using the remote service

BENEFITS

- Quick response time for technical support
- Solves problems on-site (minimises tools transfers)
- Increases equipment uptime
- Reduces Total Cost of Ownership
- Identifies process improvement opportunities

BENEFITS

- Optimises programming (higher productivity)
- Implements Predictive Maintenance
- Supports the root cause analysis
- Identifies competence gaps

BENEFITS

- Enhances customer's knowledge on troubleshooting
- Autonomy to solve less complex technical issues
- Faster production recovery (increase uptime)
- Validates any remote solution prior to implementation
- Better technical communication with our technicians

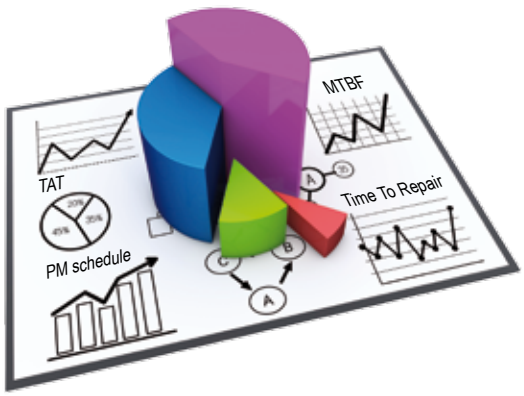
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Cost of Ownership

- Unplanned downtime
- Production loss
- Overtime
- Quality problems
- Warranty
- Re-work
- Recall
- Higher repair costs
- Inefficient repair flow

Smart Care

Service driven by KPIs



Remote Service



Desoutter remote service (via phone or CVI3 controller connection) allows faster diagnosis of problems and more efficient support

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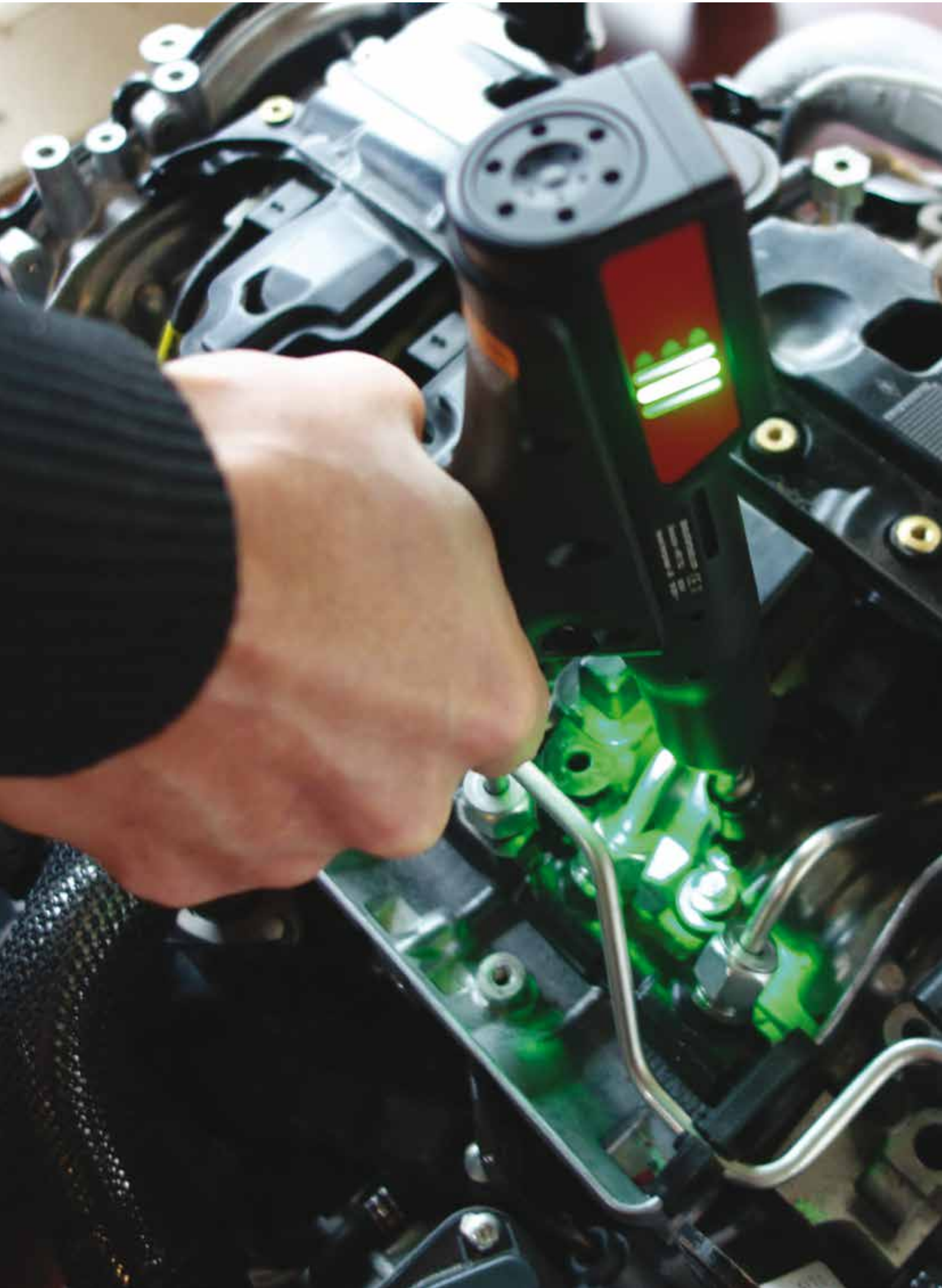
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Assembly Tools - Selection guide

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E-LIT Series - Optimize your performance

Clutch Battery Tool range

desoutter.info/E-LIT

FOCUS



3 MODELS TO CHOOSE FROM		BRUSHLESS MOTOR	LI-ION BATTERY	E-LIT CONFIG SOFTWARE	SPEED MODULE	E-LIT BOX
E-LIT PLUS ELECTRONIC BRUSHLESS (ELB) PISTOL AND ANGLE		✓	✓	✓		
E-LIT PREMIUM ELECTRONIC BRUSHLESS SPEED CONTROL (ELS) PISTOL AND ANGLE		✓	✓	✓	✓	
E-LIT WIRELESS COMMUNICATION WITH E-LIT BOX (ELC) PISTOL AND ANGLE		✓	✓	✓	✓	✓

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Tool management device

Speed setting / For ELS and ELC models

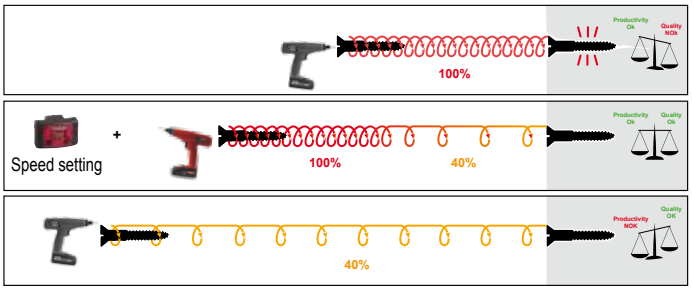
Two speed setting easily controlled by external module



Everything needed to optimize your assembly process

Guarantee quality and keep high productivity

- Decrease final speed to ensure tightening quality
- Avoid quality defects in your final product
- Decrease starting speed to facilitate bolt engagement

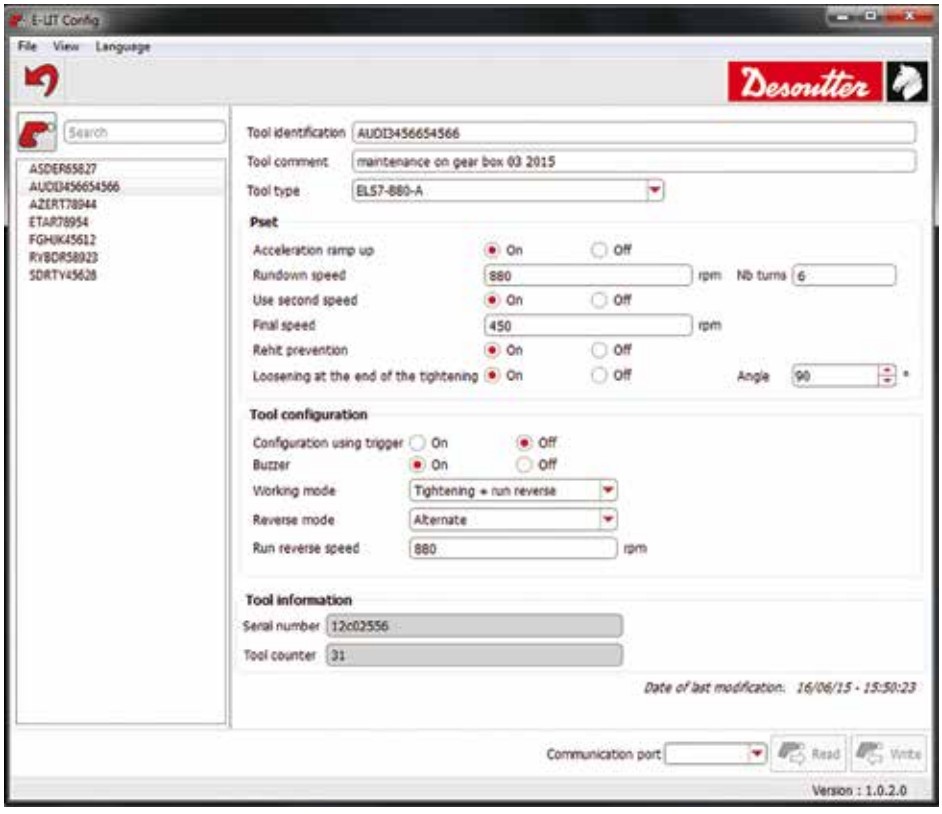


E-LIT CONFIG software

Manage your E-LIT tools

- Save your E-LIT tool setting
- Use your own tool ID
- Upload saved setting on new tools
- Go further on the setting possibility



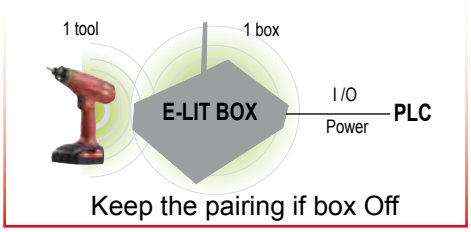


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E-LIT BOX

For Poka-Yoke application

FOCUS



Keep the pairing if box Off

Wireless communication IEEE 802.15.4 standard Fast reconnection time & Low consumption

Pairing
- Easy Pairing with dedicated button
- Keep the pairing if box Off

Poka-Yoke application
- OK/NOK Management
- Batch count : up to 4 different batch settings
- Batch count strategy
- Cross thread prevention



Connection
- Integrated power supply switch (24 V power switch)
- M12 male connector 24 V power supply and 4 digital INPUTS
- M12 female connector 8 Digital OUTPUTS
- USB port for an easy and fast connection to setting software

1
2
3
4

EASY PAIRING PROCESS

1. Press the "Easy Pairing" Button

2. Power on the E-LIT BOX





3. Press both, tool trigger and reverse, while inserting battery pack

4. Pairing completed

10 sec

NO DATA LOSS



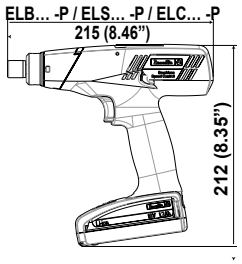
Integrated buffer memory up to 25 results

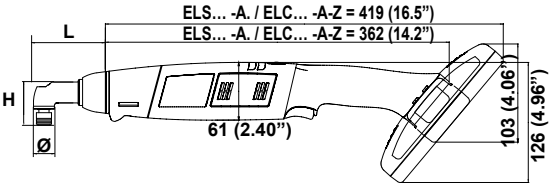
When wireless communication is stopped, reports are stored within ELC tool

You can decide to lock (or not) tool when memory buffer is full in order to prevent loosing reports

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Accessories





MODEL	H		L		Ø	
	mm	in	mm	in	mm	in
ELS7 / ELC7	45.5	1.79	75.7	2.98	22	0.87
ELS15 / ELC15	41.5	1.63	75.7	2.98	22	0.87
ELS30 / ELC30	45.5	1.79	134.2	5.28	28	1.10
ELS45 / ELC45	51.1	2.01	144.6	5.69	35	1.38
ELS60 / ELC60	57.1	2.25	158.5	6.24	40	1.57



OPTIONAL ACCESSORIES

ITEM		PISTOL	ANGLE HEAD 18V	ANGLE HEAD 36V	ELC TOOLS	PART NO.
Battery type						
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	✔	✔		✔	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	✔	✔		✔	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)			✔	✔	615 811 924 0
Chargers						
4	For Li-ion Battery 18 / 36V - 100 / 240V	✔	✔	✔	✔	615 811 654 5
Protective covers - Tools						
5	For Pistol - Clear	✔			✔	615 396 870 0
5	For Pistol - Black	✔			✔	615 211 030 0
5	For Pistol - Blue	✔			✔	615 211 031 0
5	For Pistol - Red	✔			✔	615 211 032 0
5	For Pistol - Grey	✔			✔	615 211 033 0
5	For Body angle head - Black		✔	✔	✔	615 211 004 0
5	For Body angle head - Blue		✔	✔	✔	615 211 025 0
5	For Body angle head - Red		✔	✔	✔	615 211 026 0
5	For Body angle head - Grey		✔	✔	✔	615 211 027 0
6	For Angle < 15Nm - Black		✔		✔	615 397 672 0
6	For Angle 30Nm - Black			✔	✔	615 573 214 0
6	For Angle 45Nm - Black			✔	✔	615 573 215 0
6	For Angle 60Nm - Black			✔	✔	615 211 005 0
Protective covers - Battery						
7	For Battery 18V 2.1Ah - Clear	✔	✔		✔	615 396 871 0
7	For Battery 18V 2.1Ah - Black	✔	✔		✔	615 211 041 0
7	For Battery 18V 2.1Ah - Blue	✔	✔		✔	615 211 042 0
7	For Battery 18V 2.1Ah - Red	✔	✔		✔	615 211 043 0
7	For Battery 18V 2.1Ah - Grey	✔	✔		✔	615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	✔	✔	✔	✔	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	✔	✔	✔	✔	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	✔	✔	✔	✔	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	✔	✔	✔	✔	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	✔	✔	✔	✔	615 211 049 0
Miscellaneous						
•	Kit Overmould Presto (x10 pcs)					615 211 057 5
8	Speed Setting Module (ELS/ELC version)	✔	✔	✔	✔	615 396 829 0
9	Pistol tool holster	✔			✔	615 804 914 0
10	Side handle - Pistol	✔			✔	615 396 757 0
11	Suspension bail - Pistol	✔			✔	443 703
12	Kit colour rings - Pistol (7 colors: white, yellow, orange, green, blue, purple, grey)	✔			✔	615 396 742 5
12	Kit colour rings - Angle tools (8 colors: white, yellow, orange, green, blue, purple, grey, black)		✔	✔	✔	615 970 114 5
13	Kit Nose Crowfoot	✔			✔	615 810 695 0
14	E-LIT BOX-V2				✔	615 936 310 0
15	Power supply E-LIT BOX				✔	615 927 053 0
16	eDOCK	✔	✔	✔	✔	615 811 976 0
•	E-LIT CONFIG software	✔	✔	✔	✔	-
Desoutter Tool Holsters						
17	DTH-42	✔			✔	107892
18	DTH-90	✔			✔	615 812 119 0
19	DTH TWIN (single) without rail		✔	✔	✔	615 811 411 0
20	DTH TWIN rail kit with 2 Twin holders		✔	✔	✔	615 811 412 5
21	DTH TWIN stand kit with 2 Twin holders		✔	✔	✔	615 811 413 5
•	License Elit PC Level 1				✔	615 927 685 0

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E-LIT series

0.4 to 60 Nm (3.5 to 530 in. lb) - 50 to 1550 rpm


A


B


C


D

PIC REF	MODEL	PART NUMBER	TORQUE RANGE		ROTATIONAL SPEED	OUTPUT DRIVE	WEIGHT WITHOUT BATTERY		VOLTAGE
			Nm	in. lb	rpm	in.	kg	lb	V
E-LIT PLUS - ELECTRONIC BRUSHLESS MOTOR									
A	ELB 2.5-1250-P	615 165 415 0	0.4-2.5	3.5-22	1250	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-900-P	615 165 416 0	0.8-6	7.1-53	900	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-670-P	615 165 440 0	0.8-6	7.1-53	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 8-670-P	615 165 417 0	1.5-8	13.3-70	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 12-600-P	615 165 418 0	3-12	26.5-106	570	Hex. 1/4 F	0.8	1.76	18
E-LIT PREMIUM - ELECTRONIC BRUSHLESS SPEED SETTING									
A	ELS 2.5-1550-P	615 165 419 0	0.4-2.5	3.5-22	500-1550	Hex. 1/4 F	0.8	1.76	18
A	ELS 6-1000-P	615 165 420 0	0.8-6	7.1-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P	615 165 605 0	1.5-8	13.3-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-800-P	615 165 421 0	1.5-8	13.3-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P4S	615 165 825 0	1.5-8	13.3-70	120-400	Sq. 1/4	0.8	1.76	18
A	ELS 12-600-P	615 165 422 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
A	ELS 12-400-P4S	615 165 826 0	3-12	26.5-106	120-400	Sq. 1/4	0.8	1.76	18
B	ELS 7-360-A4S	615 165 725 0	1.5-7	13.3-62	120-360	Sq. 1/4	1.2	2.6	18
B	ELS 7-880-A	615 165 628 0	1.5-7	13.3-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELS 15-480-A	615 165 629 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
B	ELS 15-480-A4S	615 165 839 0	5-15	44.2-133	200-480	Sq. 1/4	1.2	2.6	18
C	ELS 30-300-A	615 165 630 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELS 45-180-A	615 165 631 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36
D	ELS 60-160-A	615 165 632 0	25-60	220-530	50-160	Sq.1/2	1.97	4.33	36
E-LIT WIRELESS - COMMUNICATION WITH E-LIT BOX									
A	ELC 6-1000-P-Z	615 165 701 0	3-6	26.5-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-400-P-Z	615 165 702 0	3-8	26.5-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-800-P-Z	615 165 703 0	3-8	26.5-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELC 12-600-P-Z	615 165 704 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
B	ELC 7-360-A4S-Z	615 165 726 0	3-7	26.5-62	150-360	Sq. 1/4	1.2	2.6	18
B	ELC 7-880-A-Z	615 165 707 0	3-7	26.5-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELC 15-480-A-Z	615 165 708 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
C	ELC 30-300-A-Z	615 165 709 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELC 45-180-A-Z	615 165 710 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36
D	ELC 60-160-A-Z	615 165 711 0	25-60	220-530	50-160	Sq.1/2	1.97	4.33	36

Battery not included in standard offering

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B-FLEX: Performance and flexibility

FOCUS



KEY POINTS

BEST ERGONOMICS	HIGH TECHNOLOGY	QUALITY CONTROL
Ergostop technology to avoid RSI (Repetitive Strain Injury)	Smart embedded HMI on tool	Direct feedback for the operator
Perfectly balanced grip design	High resolution transducer	Visible tightening results on tool HMI
Rebalancing with the two different battery positions	New motor dedicated to battery tools: high speed, high torque, low temperature	Torque control and angle monitoring
Operator comfort		

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B-FLEX: Ergonomy and control

desoutter.info/B-FLEX

ERROR PROOF QUALITY CONTROL

- Direct feedback for the operator
- Torque and Angle tightening result
- Torque control tightening strategy



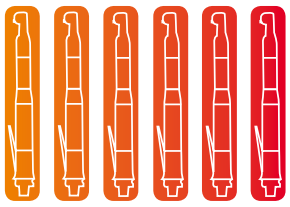


100 last results on "CVI Monitor"



B-FLEX ADVANCED (Standard features +)

6 Pset

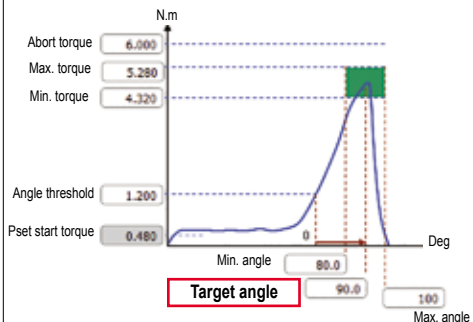


6 TOOLS in 1 B-FLEX



Angle Strategy

Error proof your standard tightenings



Full data collection

(up to 10 000 on CVI Analyzer)

CVI ANALYZER



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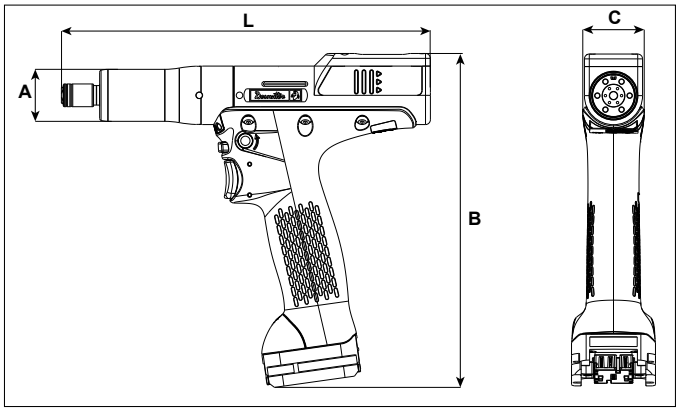
B-FLEX Series - Pistol grip

1.5 to 17 Nm (1.1 to 12.5 ft. lb) - 10 to 1800 rpm





MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPB 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



ACCESSORIES
see page 24

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE						ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
			in.	Nm	Nm	Nm	ft. lb	ft. lb	ft. lb	18V	36V	kg	lb	V
B-FLEX - TRANSDUCERIZED BATTERY TOOL														
A	EPB 8-1800-4Q	615 165 899 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPB 8-1800-10S	615 165 903 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPB14-900-4Q	615 165 978 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPB14-900-10S	615 165 977 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPB 17-700-4Q	615 165 905 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPB 17-700-10S	615 165 901 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B-FLEX - ADVANCED														
A	EPBA 8-1800-4Q	615 165 972 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPBA 8-1800-10S	615 165 971 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPBA14-900-4Q	615 165 974 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPBA14-900-10S	615 165 973 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPBA 17-700-4Q	615 165 976 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPBA 17-700-10S	615 165 975 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36

• Battery not included in standard offfering
• Battery 18V, 2.1Ah - Weight: 0.35kg (0.77lb) / 18V, 4.2Ah & 36V, 2.1Ah - Weight: 0.60kg (1.32lb)

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B-FLEX Series - Angle head

5 to 95 Nm (3.7 to 70 ft. lb) - 10 to 900 rpm

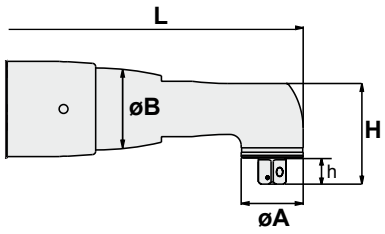






MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAB 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EAB 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EAB 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EAB 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91

L = Tool lenght without battery



ACCESSOIRES
see page 24

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE MIN.	TORQUE RANGE RECOM-MENDED	TORQUE RANGE MAX.	MIN.	RECOM-MENDED	MAX.	ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOLTAGE
			in.	Nm	Nm	Nm	ft. lb	ft. lb	ft. lb	rpm	kg	lb	V
B-FLEX - TRANSDUCERIZED BATTERY TOOL													
•	EAB 15-900	615 165 731 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EAB 26-560	615 165 732 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EAB 32-410	615 165 733 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EAB 45-330	615 165 734 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EAB 50-450	615 165 735 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EAB 60-370	615 165 736 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EAB 75-300	615 165 737 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EAB 95-240	615 165 738 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36
B-FLEX - ADVANCED													
•	EABA15-900	615 165 961 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABA26-560	615 165 962 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABA32-410	615 165 963 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABA45-330	615 165 964 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABA50-450	615 165 965 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABA60-370	615 165 966 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABA75-300	615 165 967 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABA95-240	615 165 968 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard offering
• Battery 36V, 2.1Ah - Weight: 0.60 kg

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Accessories









EPB / EAB

ACCESSORIES INCLUDED

	EPB/EPBA
• Pistol protective cover Red	615 211 022 0

OPTIONAL ACCESSORIES

ITEM		EAB/EABA	EPB/EPBA
Battery type			
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)		615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)		615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0	615 811 924 0
Charger			
4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5	615 811 654 5
Protective covers - Tools			
5	For Angle head EAB 15	615 211 003 0	
5	For Angle head EAB 26/32	615 573 207 0	
5	For Angle head EAB 45/50	615 573 208 0	
5	For Angle head EAB 60	615 573 209 0	
5	For Angle head EAB 75/95	615 573 210 0	
6	Pistol protective cover Black		615 211 019 0
Protective covers - Battery			
7	For Battery 18V 2.1Ah - Clear		615 396 871 0
7	For Battery 18V 2.1Ah - Black		615 211 041 0
7	For Battery 18V 2.1Ah - Blue		615 211 042 0
7	For Battery 18V 2.1Ah - Red		615 211 043 0
7	For Battery 18V 2.1Ah - Grey		615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0	615 211 049 0
Miscellaneous			
8	Nose crowfoot adapter for EPB		615 565 518 0
9	eDOCK	615 811 976 0	615 811 976 0
10	Side handle		615 397 016 0
Desoutter Tool holster			
11	DTH TWIN (single) without rail	615 811 411 0	
12	DTH TWIN rail kit with 2 Twin holders	615 811 412 5	
13	DTH TWIN stand kit with 2 Twin holders	615 811 413 5	
14	DTH90		615 812 119 0

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Advanced tightening systems

ELECTRIC TRANSDUCER CORDLESS

- EABcom 5 - 95 Nm
- EPBcom 1.5 - 17 Nm

ELECTRIC TRANSDUCER CORD

CVI3 Function
CVI3 Vision
TwinCVI3

EAD/EID cable
EFD cable

- EAD 3 - 660 Nm
- EID 3 - 270 Nm
- EFDE / EFDS 1-1900 Nm
- EFDA 12 - 580 Nm

Adaptator CVI II for ERx tools and EME tools (except ELRT)

CVIL II

ERP..LT, ERF, cable included

Module ERS to connect CVI3 controllers

- ELRT 10-45 Nm
- ERAL 2 - 480 Nm
- ERDL 0.5 - 250 Nm
- ERP 0.35 - 42 Nm
- EME 1 - 1900 Nm
- EMEL 10 - 800 Nm
- EME OF 4 - 350 Nm
- ERF 0.35-30 Nm

CVIR II H4

- ERP HT 75-1700 Nm

Cable included

CVIR II

- ERS (M20) 0.6 - 22 Nm
- ERSA 0.6 - 27 Nm
- ERSF 1.5 - 12 Nm

CVIXS

- ERXS 6 - 80 Ncm

ELECTRIC CURRENT CONTROL

Cable included

CVIC II-L2
CVIC II-H2

ECP..LT, cable included
EC cable
MC cable

- ECS (M20) 0.12 - 16 Nm
- ECSA 0.55 - 11.5 Nm
- ECSF 0.12 - 16 Nm
- ECP..L 1 - 20 Nm
- ECA15 5 - 15 Nm
- ECD5 2 - 6 Nm
- MC35-10 2.5 - 8 Nm

CVIC II-L4
CVIC II-H4

EC cable
MC cable

- ECA 7 - 200 Nm
- ECD 7 - 120 Nm
- ECP ECP HT 7 - 4000 Nm
- MC 5 - 135 Nm

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The new standard of Value in Efficient Tightening…

In an era of FLEXIBLE manufacturing and the race to ZERO-fault assembly, Desoutter is proud to introduce the new standard of Value in Efficient Tightening for safety-critical applications : CVI3 assembly system

This new system offers unequalled EFFICIENCY for all plants thanks to the best combination of advanced process control, easy integration, user-friendly interface & unmatched flexibility

The CVI3 system integrates UNIQUE added value INNOVATIONS :
Reduce rework cost : complete station process control including tightening & logical operations without need for a dedicated PLC > **Assembly Process**
Decrease installation/re-balance cost : Fast & easy line re-balancing with multiple Battery transducerized tools connected to 1 CVI3 controller > **EAB cordless tools**

Improve quality with intuitive software : User-friendly & visual interface to view tightening data & detect quality issues > **CVI ANALYZER**

Optimize flexibility : 2 fixtured spindles synchronized or asynchronized in standard > **TWINCVI3**

ADVANCED PROCESS CONTROL

EASY INTEGRATION



UNMATCHED FLEXIBILITY



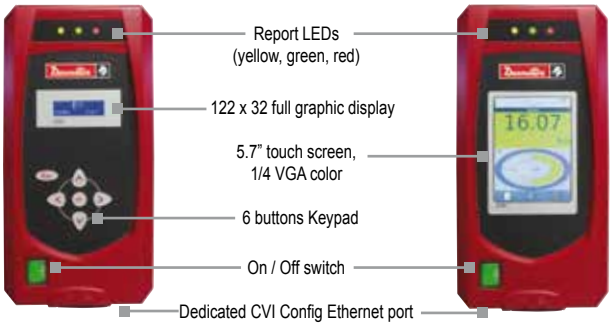
USER-FRIENDLY INTERFACE

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Technical features



CVI3 **Function** CVI3 **Vision**



FEATURES	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
CONTROLLERS			
Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm3)	19.5	19.5	29.6
Color touchscreen		✔ (5.7")	✔ (5.7")
STORAGE			
Pset results (torque, angle, date, time, report)	10000	10000	10000/20000
Pset curves (OK/NOK)	20	20	20/40
Assembly Process results	1000	1000	1000/2000
Event log storage (number of events)	500	500	500
BASIC FUNCTIONS			
Nbr of Psets	250	250	250
Nbr of steps per Pset	15	15	15
Barcode reading (standard and 2D)	✔	✔	✔
Quick Pset	✔	✔	✔
Tubenut release	✔	✔	✔
ADVANCED FUNCTIONS			
Access Level Control/Management with unlimited profiles	✔	✔	✔
ID input to select Assembly Process (up to 4 different identifiers)	✔	✔	✔
Number of Assembly Process	250	250	250
Advanced Soft PLC (in option with CVILOGIX)	✔	✔	✔
1 Network/Fieldbus Access point per group of up to 14 controllers		✔	✔
Full synchronized control for a group of up to 14 controllers (static/dynamic)		✔	✔
TIGHTENING STRATEGIES			
Control : torque, angle, torque OR angle, torque AND angle, yield point, torque rate, seating detection	✔	✔	✔
Monitoring : yield point, torque rate, 2nd torque, 2nd angle, 2nd part angle, current, slip off, stick slip	✔	✔	✔
CONNECTIVITY			
Configurable I/O	8/8	8/8	8/8
USB ports (2 + 1 front)	✔	✔	✔
Embedded Ethernet switch (4 ports + 1 front – 2 networks)	✔	✔	✔
Dedicated Bus for integrated positionning management	✔	✔	✔
OPTIONAL FIELDBUS			
Plug & Play Fieldbus card port (EthernetIP, ProfiNet A/B, Modbus TCP, DeviceNet, Profibus, CC-Link)	✔	✔	✔
Fieldbus dynamic memory mapping	✔	✔	✔

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Controllers

desoutter.info/CVI3



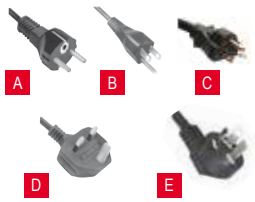
PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
						WIDTH		HEIGHT		DEPTH			
			115V	220V	50/60 Hz	mm	in.	mm	in.	mm	in.	kg	lb.
A	**CVI3 Vision**	**615 932 691 0**	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
A	**CVI3 Vision eSTOP**	**615 932 694 0**	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	**TWINCVI3**	**615 932 697 0**	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15	33.1
B	**TWINCVI3 eSTOP**	**615 932 698 0**	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15	33.1
C	**CVI3 Function**	**615 932 690 0**	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
C	**CVI3 Function eSTOP**	**615 932 693 0**	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5

CVIMONITOR included with controller: License free remote software for realtime monitoring of results, curves, I/O status , Fieldbus diagnostic, calibration & maintenance indicators

POWER CORD

to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 069 0**
B	US NEMA 5-15	**615 917 060 0**
C	US NEMA 5-20	**615 917 063 0**
D	UK	**615 917 070 0**
E	Chinese	**615 917 061 0**



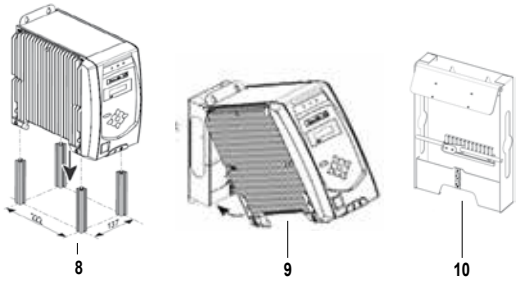
OPTIONAL ACCESSORIES

ITEM		PART NO.
Fieldbus modules		
1	Profibus module	**615 927 595 0**
2	ProfiNet module (1 port)	**615 927 596 0**
3	ProfiNet module (2 ports)	**615 927 597 0**
3	ProfiNet IRT module (2 ports)	**615 927 070 0**
4	DeviceNet module	**615 927 599 0**
4	CC-Link module	**615 927 598 0**
5	EtherNet IP module	**615 927 594 0**
6	Modbus TCP module	**615 927 615 0**
ePOD		
7	ePOD1	**615 936 075 0**
7	ePOD2	**615 936 076 0**
7	ePOD3	**615 936 077 0**
7	ePOD2C	**615 936 311 0**
7	ePOD3C	**615 936 318 0**
7	ePOD4C	**615 936 312 0**
Others Accessories		
8	Table mounting	**615 397 399 5**
9	Wall mounting CVI3 Function/Vision	**615 397 631 5**
10	Wall mounting TWINCVI3	**615 811 897 0**



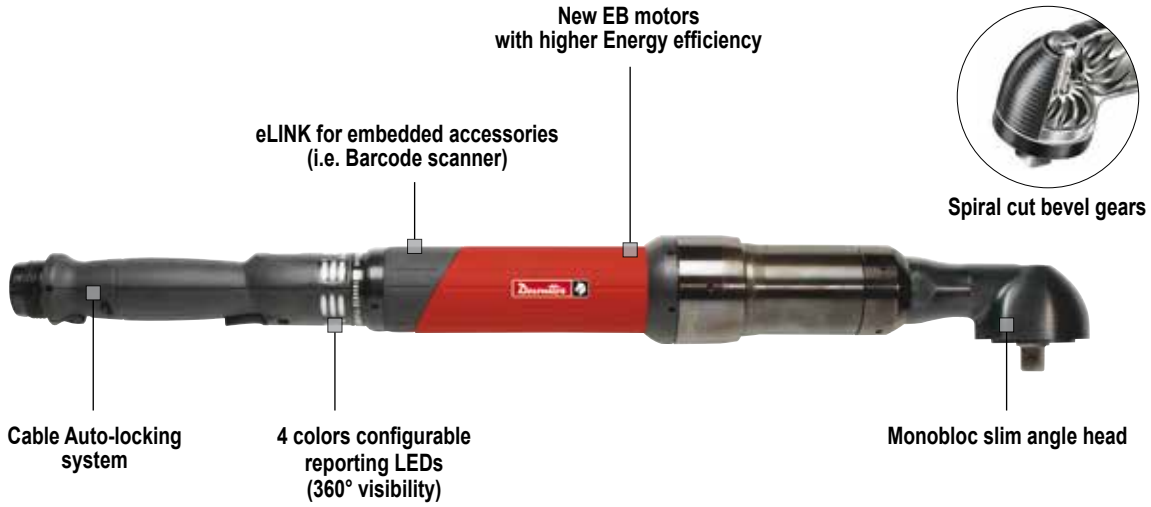
OPTIONAL ACCESSORIES

	PART NO.
Software	
• CVI CONFIG - 1 user	**615 927 699 0**
• CVI CONFIG - 5 users	**615 927 700 0**
• CVI CONFIG - 25 users	**615 927 701 0**
• CVI ANALYZER - 1 user	**615 927 696 0**
• CVI ANALYZER - 5 users	**615 927 697 0**
• CVI ANALYZER - 25 users	**615 927 698 0**
• CVINET WEB - 1 cont.	**615 927 736 0**
• CVINET WEB - 10 cont.	**615 927 737 0**
• CVINET WEB - 25 cont.	**615 927 738 0**
• CVINET WEB - 50 cont.	**615 927 739 0**
• CVINET WEB - 100 cont.	**615 927 747 0**
• CVINET WEB - 200 cont	**615 927 748 0**
• CVINET WEB - Open Protocol Adapter	**615 927 758 0**
• CVINET WEB - Notifier	**615 927 076 0**
• Upgrade from CVI NET to CVINET WEB 1 cont.	**615 927 740 0**
• Upgrade from CVI NET to CVINET WEB 10 cont.	**615 927 741 0**
• Upgrade from CVI NET to CVINET WEB 25 cont.	**615 927 742 0**
• Upgrade from CVI NET to CVINET WEB 50 cont.	**615 927 743 0**
• Upgrade from CVI NET to CVINET WEB 200 cont.	**615 927 744 0**
• CVIKEY (access level management on USB key)	**615 927 676 0**

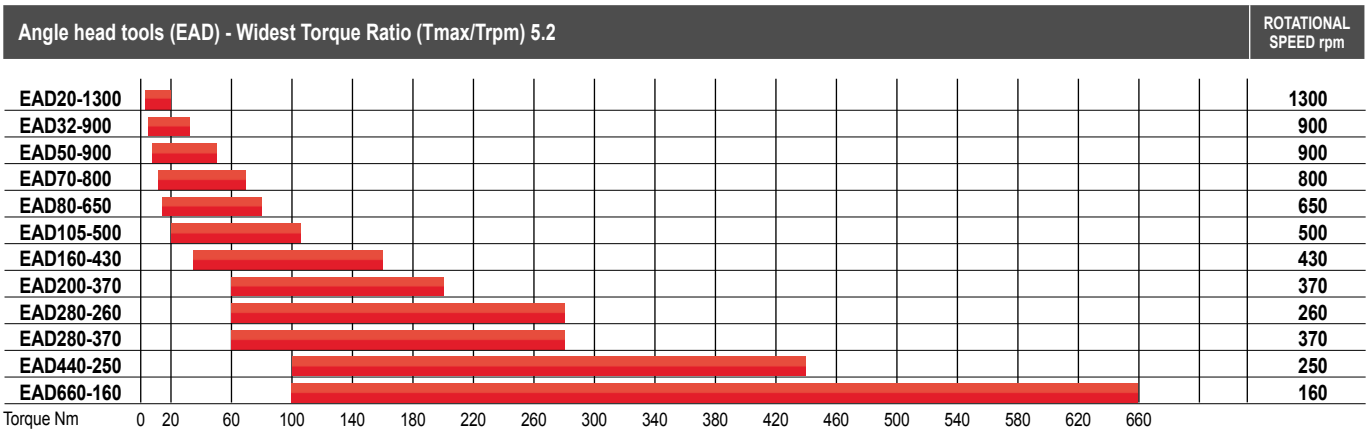


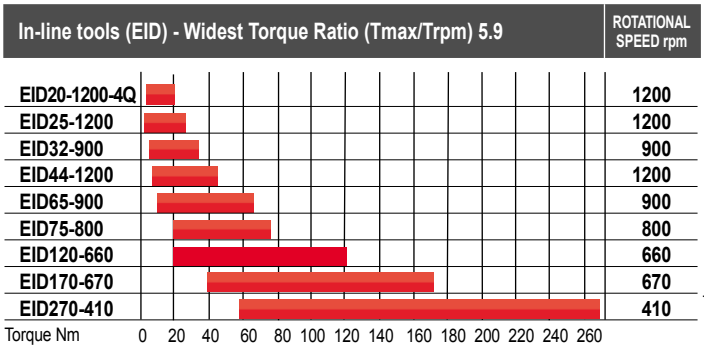
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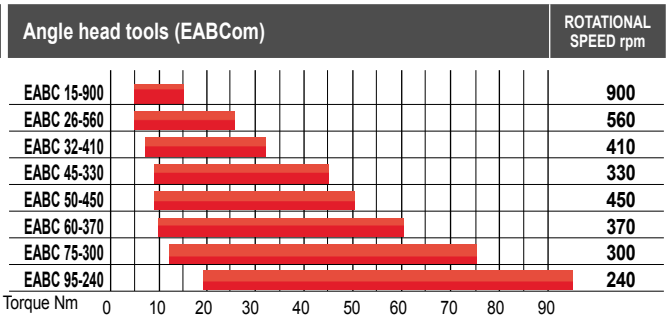
Torque Range - Portable electric nutrunners

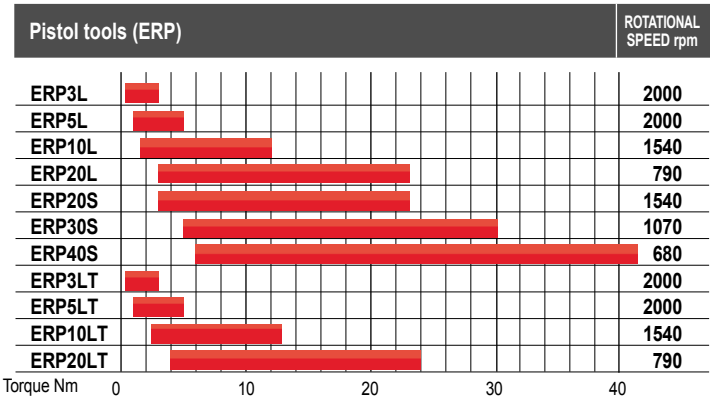


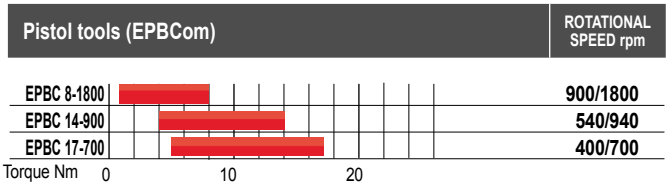
Performance of Portable electric nutrunners - EAD, EID, EABC, EPBC and ERP





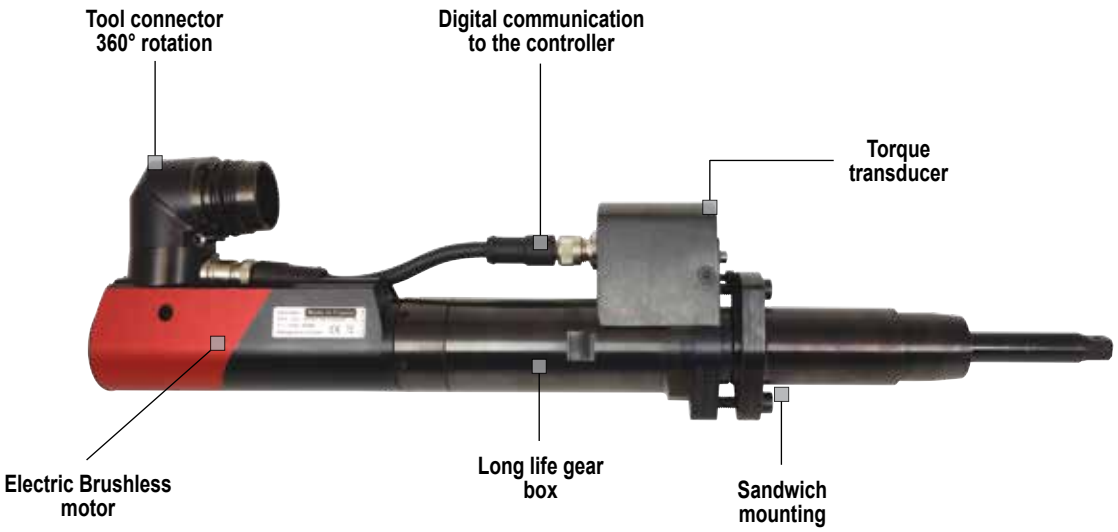




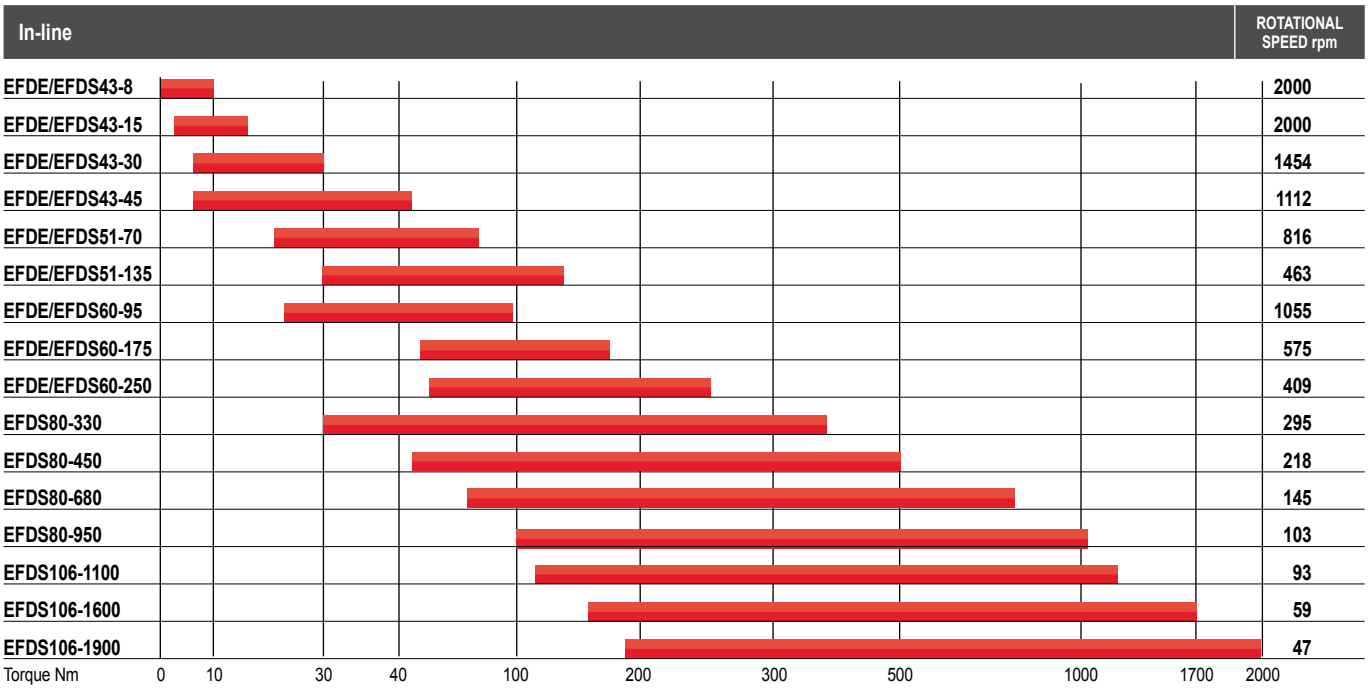


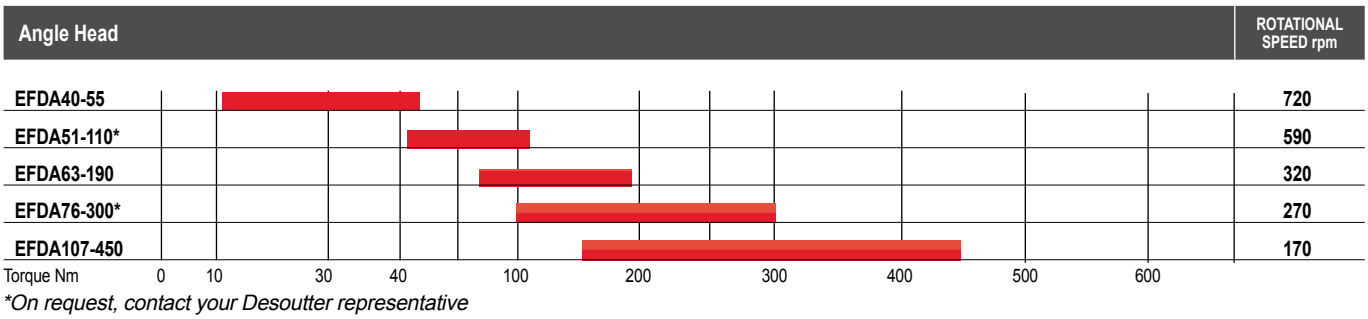
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Torque Range - Fixtured electric spindles



Performance of Fixtured electric spindles - Series EFDE, EFDS and EFDA





On request, contact your Desoutter representative

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Pistol grip electric nutrunners - CVI3

0.35 to 42 Nm (0.26 to 31 ft.lb) - 680 to 2000 rpm









ACCESSORIES
see pages 46-47

CVI II Adapter needed

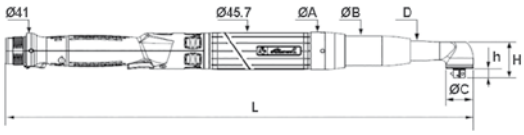
PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
A	ERP3L	615 165 193 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
A	ERP5L	615 165 194 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
A	ERP10L	615 165 195 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
A	ERP20L	615 165 196 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
A	ERP20S	615 165 197 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
B	ERP30S	615 165 198 0	Sq. 3/8	5	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
C	ERP40S	615 165 263 0	Sq. 3/8	6	40	42	4.4	29.5	31	680	274	11	1.7	3.7
D	ERP3LT	615 165 227 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
D	ERP5LT	615 165 228 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
D	ERP10LT	615 165 229 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
D	ERP20LT	615 165 230 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4

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Angle head electric nutrunners - CVI3

3 to 105 Nm (2.2 to 77.4 ft.lb) - 500 to 1300 rpm





MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD20-1300	12.0	0.47	45.5	1.79	46	1.81	37	1.46	28	1.10	25	0.98
EAD32-900	12.0	0.47	45.5	1.79	46	1.81	37	1.46	28	1.10	25	0.98
EAD50-900	12.0	0.47	51.1	2.01	46	1.81	37	1.46	35	1.38	28	1.10
EAD70-800	12.0	0.47	56.7	2.23	58	2.28	43	1.69	40	1.57	32	1.26
EAD70-800 - 1/2"	17.0	0.67	62.0	2.43	58	2.28	43	1.69	40	1.57	32	1.26
EAD80-650	17.5	0.69	60.4	2.38	58	2.28	48	1.89	45	1.77	40	1.57
EAD105-500	17.5	0.69	60.4	2.38	58	2.28	48	1.89	45	1.77	40	1.57

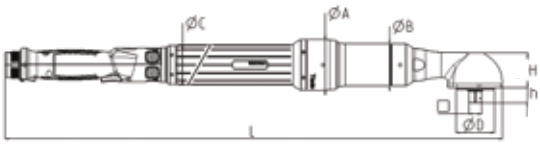
ACCESSORIES
see pages 46-47

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD20-1300	615 165 606 0	3/8	3	18	20	2.2	13.3	14.8	1300	481	19.2	1.4	3.08
EAD32-900	615 165 607 0	3/8	5	30	32	3.7	22.1	23.6	900	481	19.2	1.4	3.08
EAD50-900	615 165 609 0	3/8	8	45	50	5.9	33.2	40.6	900	531	20.9	1.8	3.96
EAD70-800	615 165 611 0	3/8	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD70-800	615 165 882 0	1/2	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD80-650	615 165 612 0	1/2	15	75	80	11.1	55.3	59	650	567	22.3	2.4	5.72
EAD105-500	615 165 613 0	1/2	20	90	105	14.8	66.4	77.4	500	567	22.3	2.4	5.72

Angle head electric nutrunners - CVI3

35 to 660 Nm (26 to 487 ft.lb) - 160 to 430 rpm





MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD160-430	17.1	0.67	65	2.56	66	2.6	55	2.17	52	2.05	50	1.16
EAD200-370	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-260	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-370	23	0.91	85	3.35	76	2.99	55	2.17	66	2.60	62	2.44
EAD440-250	24	0.94	91	3.58	76	2.99	67	2.64	66	2.60	75	2.95
EAD660-160	33.1	1.3	110	4.33	76	2.99	67	2.64	66	2.60	106	4.17

ACCESSORIES
see pages 46-47

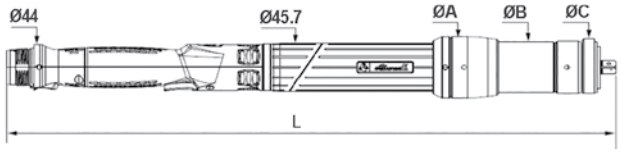
MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD160-430	615 165 681 0	1/2	35	150	160	26	111	118	430	650	25.6	4.3	9.5
EAD200-370	615 165 682 0	3/4	60	170	200	44	125	148	370	673	26.5	5.1	11.2
EAD280-260	615 165 683 0	3/4	60	250	280	44	184	207	260	673	26.5	5.1	11.2
EAD280-370	615 165 684 0	3/4	60	250	280	44	184	207	370	681	26.8	6.1	13.5
EAD440-250	615 165 685 0	3/4	100	400	440	74	295	325	250	735	28.9	8.4	18.5
EAD660-160	615 165 686 0	1	100	600	660	74	443	487	160	774	30.4	11.0	24.3

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In-line electric nutrunners - CVI3

3 to 75 Nm (2.2 to 57.5 ft.lb) - 800 to 1200 rpm





MODEL	ØA		ØB		ØC	
	mm	in.	mm	in.	mm	in.
EID20-1200-4Q	62	2.44	37	1.46	60	2.36
EID25-1200	62	2.44	37	1.46	60	2.36
EID32-900	62	2.44	37	1.46	60	2.36
EID44-1200	62	2.44	48	1.89	54	2.13
EID65-900	58	2.28	48	1.89	54	2.13
EID75-800	58	2.28	48	1.89	54	2.13

ACCESSORIES
see pages 46-47

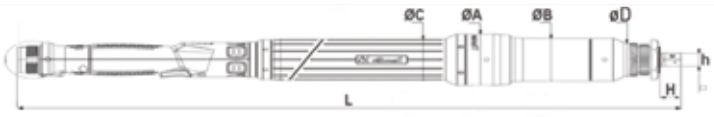
MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EID20-1200-4Q*	615 165 992 0	Hex. 1/4 F	3	18	21	2.2	13.3	15.5	1200	430	16.9	1.20	2.64
EID25-1200*	615 165 614 0	Sq. 3/8	3	20	25	2.2	14.8	18.4	1200	430	16.9	1.20	2.64
EID32-900*	615 165 615 0	Sq. 3/8	5	30	32	3.7	22.1	25.1	900	430	16.9	1.20	2.64
EID44-1200*	615 165 616 0	Sq. 3/8	7	40	44	5.2	29.5	33.2	1200	489	19.3	1.95	4.29
EID65-900	615 165 617 0	Sq. 1/2	10	60	65	7.4	44.3	47.9	900	489	19.3	1.95	4.29
EID75-800	615 165 618 0	Sq. 1/2	20	70	75	14.8	51.6	57.5	800	489	19.3	1.95	4.29

(*): Tools mounted with second lever start in standard

In-line electric nutrunners - CVI3

20 to 270 Nm (15 to 199 ft.lb) - 410 to 670 rpm





MODEL	ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.
EID120-660	66	2.60	55	2.17	52	2.05	42.0	1.65
EID170-670	72	2.83	55	2.17	66	2.60	42.0	1.65
EID270-410	76	2.99	67	2.64	66	2.60	53.5	2.11

ACCESSORIES
see pages 46-47

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EID120-660	615 165 677 0	1/2	20	110	120	15	81	89	660	583	22.9	3.3	7.3
EID170-670	615 165 678 0	1/2	40	150	170	30	111	125	670	591	23.3	4.6	10.1
EID270-410	615 165 679 0	3/4	60	250	270	44	184	199	410	625	24.6	6.1	13.5

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Crowfoot and tube nut tools

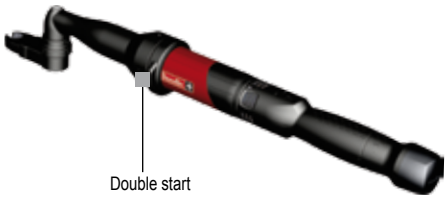






Offset Closed





Offset Open

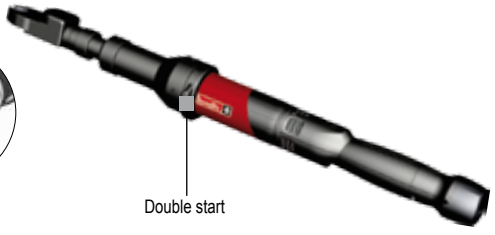
Double start





In line Closed





In line Open

Double start



Flush Socket tools



Hold and Drive tools

Contact your Desoutter representative for assistance in specifying the correct head for your application. We can supply standard products or, if the application requires, we can also provide customized tools.

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Wireless transducerized battery tool

Multi Battery Tools

Virtual controllers management by Desoutter

Optimized footprint - free from cable - Full Traceability

Access point

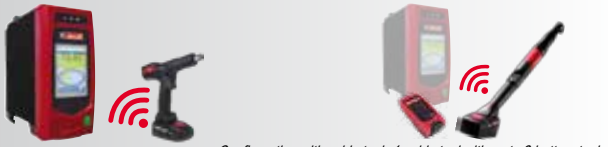




WITH 1 CVI3 VISION

ADD UP TO 3 VIRTUAL CONTROLLERS
GET UP TO 4 BATTERY TOOLS CONNECTED

EPOD 2C — up to 2 battery tools



Configuration with cable tool : 1 cable tool with up to 2 battery tools

EPOD 3C — up to 3 battery tools



Configuration with cable tool : 1 cable tool with up to 2 battery tools

EPOD 4C — up to 4 battery tools



Configuration with cable tool : 1 cable tool with up to 3 battery tools



Accessories can be dedicated to only one virtual controller or to the whole virtual controllers

Tool overview





Pistol Version : additional features

- Torque 1,5-17 Nm
- Compatible with both 18v and 36V batteries
- White LED activated by movement

ADVANCED ERGONOMICS

- **Low weight tools**
- **Effortless trigger**
- **45° oriented battery (angle version)**
- **Slim angle head for tight areas access**

EASY INTEGRATION

- **Quick wireless installation - Directly on an existing CVI3 controller**
- **Data collection through wireless communication**
- **Improve error-proofing control with advanced tightening strategies**
- **Easy attachment for crowfoot & tubenuts**

INCREASED PRODUCTIVITY

- **High speed tool and increased autonomy with 36V battery & 2.1 Ah capacity**
- **Embedded display for pset selection**
- **Strong & efficient wireless communication, tested in industrial environment**

OPTIMIZED MAINTENANCE

- **Long life batteries, no memory effect on Li-ion battery**
- **Dust & oil proof trigger**
- **Common spare parts with all CVI3 range**

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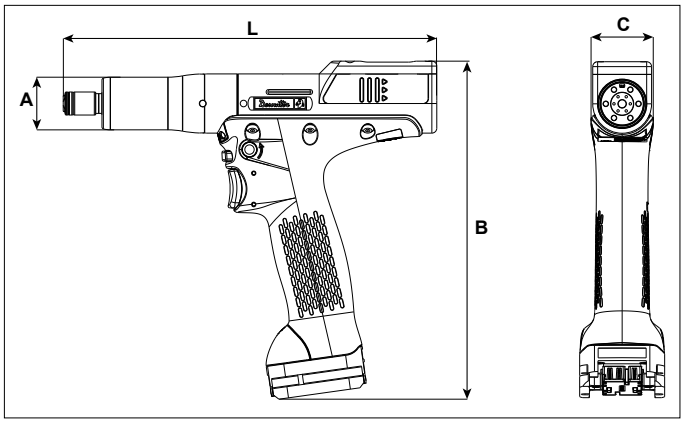
EPBcom Series

1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm





MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPBC 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



ACCESSORIES
see page 39

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE						ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	18V	36V	kg	lb	V
EPBcom - TRANSDUCERIZED BATTERY TOOL														
A	EPBC 8-1800-4Q	615 165 900 0	Hex.1/4"F	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
B	EPBC 8-1800-10S	615 165 904 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
A	EPBC14-900-4Q	615 165 980 0	Hex.1/4"F	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
B	EPBC14-900-10S	615 165 979 0	Sq. 3/8	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
A	EPBC 17-700-4Q	615 165 906 0	Hex.1/4"F	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36
B	EPBC 17-700-10S	615 165 902 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36

• Battery not included in standard offering
• Battery 18V, 2.1 Ah: 0.35 kg (0.77lb) / 18V, 4.2 Ah & 36V, 2.1Ah: 0.60 kg (1.32lb)

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EABcom Series

5 to 95 Nm (3.7 to 70 ft.lb) - 10 to 900 rpm



A



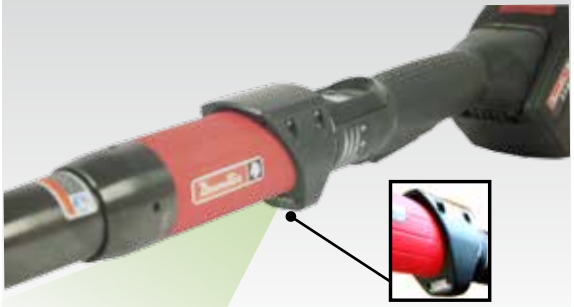
B



C

NEW eLINK range

Angle head tool with integrated task light
(with LED color code reporting)

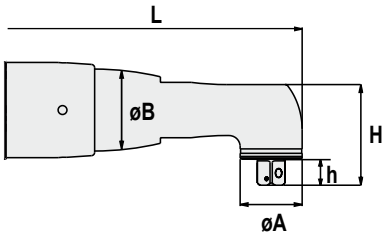


Barcode reader ready



MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EABC 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EABC 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	**1.46**
EABC 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EABC 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EABC 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EABC 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91

L = Tool lenght without battery



PIC REF	MODEL	PART NUMBER EABCOM	PART NUMBER EABCOM eLINK	SQUARE DRIVE	TORQUE RANGE						ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOL-TAGE
					MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.				
				in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	kg	lb	V
EABcom - TRANSDUCERIZED BATTERY TOOL														
•	EABC 15-900	615 165 841 0	615 166 050 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABC 26-560	615 165 842 0	615 166 051 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABC 32-410	615 165 843 0	615 166 052 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABC 45-330	615 165 844 0	615 166 053 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABC 50-450	615 165 845 0	615 166 054 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABC 60-370	615 165 846 0	615 166 055 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABC 75-300	615 165 847 0	615 166 056 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABC 95-240	615 165 848 0	615 166 057 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard offering
• Battery 36V, 2.1Ah - Weight: 0.60 kg (1.32lb)

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EPBcom / EABcom

ACCESSORIES INCLUDED

	EPBcom
• Pistol protective cover - Black	615 211 019 0

OPTIONAL ACCESSORIES

ITEM		EABcom	EPBcom
Battery type			
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)		615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)		615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0	615 811 924 0
Charger			
4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5	615 811 654 5
Protective covers - Tools			
5	For Angle head EAB 15	615 211 003 0	
5	For Angle head EAB 26/32	615 573 207 0	
5	For Angle head EAB 45/50	615 573 208 0	
5	For Angle head EAB 60	615 573 209 0	
5	For Angle head EAB 75/95	615 573 210 0	
6	For Pistol EPB - Red		615 211 022 0
Protective covers - Battery			
7	For Battery 18V 2.1Ah - Clear		615 396 871 0
7	For Battery 18V 2.1Ah - Black		615 211 041 0
7	For Battery 18V 2.1Ah - Blue		615 211 042 0
7	For Battery 18V 2.1Ah - Red		615 211 043 0
7	For Battery 18V 2.1Ah - rey		615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0	615 211 049 0
Miscellaneous			
8	Nose crowfoot adapter for EPB.		615 565 518 0
9	eDOCK	615 811 976 0	615 811 976 0
10	Barcode reader for EPBC (1D/2D/QR)		615 812 281 0
•	Barcode reader for EABC-eLINK (1D/2D/QR)	615 813 038 0	
•	Access point Wifi 802.11N-US:	615 811 417 5	615 811 417 5
•	Access point Wifi 802.11N-EU:	615 811 419 5	615 811 419 5
•	Access point Wifi 802.11N-N	615 811 650 5	615 811 650 5
•	Plug UK	615 917 202 0	615 917 202 0
11	Side handle		615 397 016 0
Desoutter Tool holster			
12	DTH TWIN (single) without rail	615 811 411 0	
13	DTH TWIN rail kit with 2 Twin holders	615 811 412 5	
14	DTH TWIN stand kit with 2 Twin holders	615 811 413 5	
15	DTH90		615 812 119 0

Virtual controllers management

		PART NUMBER	Maximum number of tools	Maximum number of cable tools	Maximum number of Battery tools
16	without ePOD	-	2	1	1
16	ePOD2C	615 936 311 0	3	1	2
16	ePOD3C	615 936 318 0	3	1	3
16	ePOD4C	615 936 312 0	4	1	4

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Workgroup System

A multi spindle machine up to 14 fixtured spindles

One **TWINCVI3** or One **CVI3** Vision as a primary controller to synchronize and collect results from all controllers
Several TWINCVI3 or/and CVI3 Vision or/and CVI3 Function as Secondary controllers

All connection to the Primary :

- Ethernet network (CVI3 Config, CVI NET Web, Open protocol, HMI, etc...)
- Fieldbus like Profibus, Profinet, Ethernet IP, Devicenet, etc...
- 8 inputs and 8 outputs and much more with I/O expender
- eBus for :
  - Operator panel
  - Stack light
  - Socket tray
  - I/O expender

FIXTURED SPINDLES

EFDE : straight with telescopic output
EFDS : straight without telescopic output
EFDA : angle head
Fully compatible with EME range via the adaptor

BENEFITS

Flexibility thanks to the use of standard controllers with an additional ePod3
Synchronization of the controllers via the integrated Ethernet network





ACCESSORIES	PART NO.
Cables for EFDx tools	
Toolcable 2.5m (8.2ft)	**615 917 651 0**
Toolcable 5m (16ft)	**615 917 652 0**
Toolcable 10m (32.8ft)	**615 917 654 0**
Toolcable 15m (49.2ft)	**615 917 655 0**
Extension cable	
Extension cable 8m (26.2ft)	615 917 581 0
Extension cable 16m (52.5ft)	**615 917 584 0**
Extension cable 32m (105ft)	**615 917 587 0**
Extension cable 50m (164ft)	**615 917 589 0**
Transducer holders for EFDE tools	
3/8" Square drive EFDE43	**615 396 426 0**
1/2" Square drive EFDE51/60-95	**615 396 427 0**
3/4" Square drive EFDE60-175/250	**615 396 428 0**
Miscellaneous	
Spare transducer cable length 340mm (13.4")	**615 917 426 0**

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Workgroup System

Advanced tightening strategies
- Optimization of tightening via CVI Config
- Torque and/or Angle control
- Yield point
- Plastic zone
- Redundant T & A transducer
- Advanced Seating Detection

CVI3 suite
- CVI CONFIG
- CVI ANALYZER
- CVI NET WEB
- CVI KEY



FACTORY ETHERNET NETWORK

INTERNAL ETHERNET NETWORK

ePOD3





eStop

FIELDBUS



Operator panel



Stack Light



I/O expender

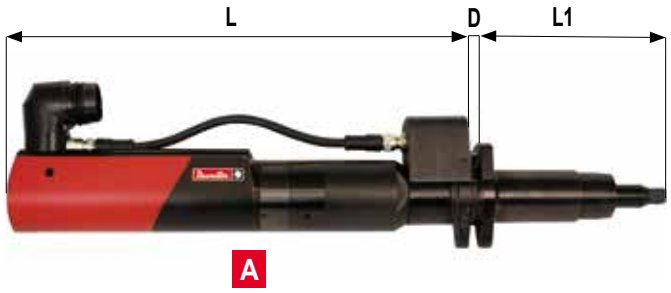
Advanced monitoring
- The primary controller displays all tightening results and events and its own tightening curves.
- Each controller displays its own results, curves and events.

Advanced Process control
- Multi tightening programs, 250 Psets with 40 steps, for all spindles or per group of spindles, action/retry in case of NOK.
- Assembly Process to manage multi Pset and simple processes.
- A soft PLC (CVI Logix) is integrated for more complex processes

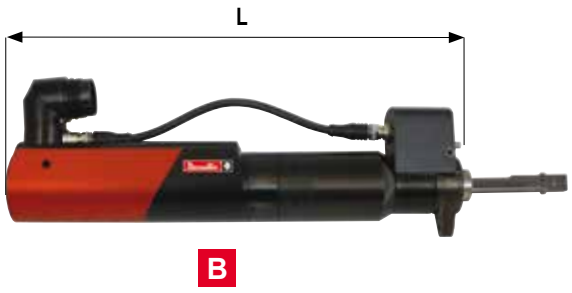
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Fixtured electric spindles - CVI3

1 to 2000 Nm (0.7 to 1475 ft.lb) - 47 to 2000 rpm



A



B

MODEL	LENGTH				D		WEIGHT			
	TOOL-L		MODULE-L1				TOOL		MODULE	
	mm	in.	mm	in.	mm	in.	kg	lb.	kg	lb.
EFDE/EFDS 43-8	276	10.9	165	6.5	10	0.39	2.1	4.6	0.65	1.43
EFDE EFDS 43-15	276	10.9	165	6.5	10	0.39	2.1	4.6	0.65	1.43
EFDE/EFDS 43-30	311	12.2	165	6.5	10	0.39	2.3	5.1	0.65	1.43
EFDE/EFDS 43-45	311	12.2	165	6.5	10	0.39	2.3	5.1	0.65	1.43
EFDE/EFDS 51-70	357	14.0	183	7.2	16	0.63	3.9	8.6	1.45	3.20
EFDE/EFDS 51-135	357	14.0	183	7.2	16	0.63	3.9	8.6	1.45	3.20
EFDE/EFDS 60-95	373	14.7	183	7.2	16	0.63	5.3	11.7	1.45	3.20
EFDE/EFDS 60-175	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12
EFDE/EFDS 60-250	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12
EFDS 80-330	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-450	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-680	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 80-950	435	17	-	-	-	-	10.2	22.5	-	-
EFDS 106-1100	476	19	-	-	-	-	15.3	33.7	-	-
EFDS 106-1600	511	20	-	-	-	-	15.9	35	-	-
EFDS 106-1900	511	20	-	-	-	-	15.9	35	-	-

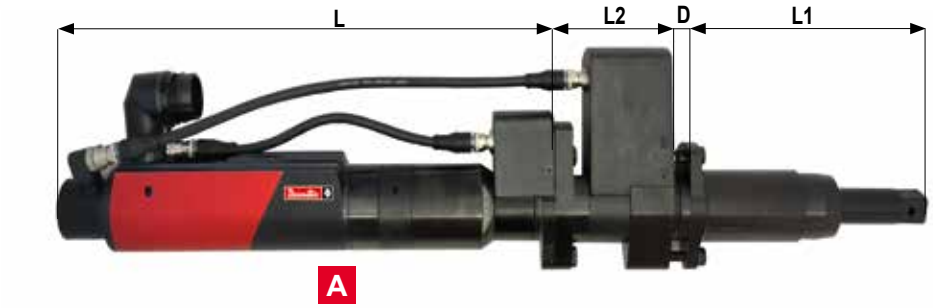
ACCESSOIRES
see page 46

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	TELESCOPIC STROKE		MIN.CENTRE DISTANCE	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.
EFDE – With removable telescopic module														
A	**EFDE 43-8**	**615 165 864 0**	3/8	1	8	10	0,7	5,9	7,4	2000	50	1.97	43	1.69
A	**EFDE 43-15**	**615 165 865 0**	3/8	3	15	17	2,2	11,1	12,5	2000	50	1.97	43	1.69
A	**EFDE 43-30**	**615 165 866 0**	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1.69
A	**EFDE 43-45**	**615 165 867 0**	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1.69
A	**EFDE 51-70**	**615 165 868 0**	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2.01
A	**EFDE 51-135**	**615 165 869 0**	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2.01
A	**EFDE 60-95**	**615 165 870 0**	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2.36
A	**EFDE 60-175**	**615 165 871 0**	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2.36
A	**EFDE 60-250**	**615 165 872 0**	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2.36
EFDS – With integrated telescopic output														
B	**EFDS 43-8**	**615 165 907 0**	3/8	1	8	10	0.7	5.9	7.4	2000	50	1.97	43	1.69
B	**EFDS 43-15**	**615 165 908 0**	3/8	3	15	17	2.2	11.1	12.5	2000	50	1.97	43	1.69
B	**EFDS 43-30**	**615 165 909 0**	3/8	7	30	32	5.2	22.1	23.6	1454	50	1.97	43	1.69
B	**EFDS 43-45**	**615 165 910 0**	3/8	7	45	50	5.2	33.2	36.9	1112	50	1.97	43	1.69
B	**EFDS 51-70**	**615 165 911 0**	1/2	20	70	80	14.7	51.6	59	816	50	1.97	51	2.01
B	**EFDS 51-135**	**615 165 912 0**	1/2	30	135	150	22.1	99.6	111	463	50	1.97	51	2.01
B	**EFDS 60-95**	**615 165 913 0**	1/2	22	95	105	16.2	70.1	77.4	1055	50	1.97	60	2.36
B	**EFDS 60-175**	**615 165 914 0**	3/4	50	175	190	36.9	129	140	575	50	1.97	60	2.36
B	**EFDS 60-250**	**615 165 915 0**	3/4	55	250	280	40.6	184	206	409	50	1.97	60	2.36
B	**EFDS 80-330**	**615 166 033 0**	3/4	30	330	360	22.1	243.4	265.5	299	60	1.97	80	3.15
B	**EFDS 80-450**	**615 166 034 0**	3/4	45	450	500	33.2	331.9	368.8	218	60	1.97	80	3.15
B	**EFDS 80-680**	**615 166 035 0**	1	70	680	740	51.6	501.5	545.8	145	60	1.97	80	3.15
B	**EFDS 80-950**	**615 166 036 0**	1	100	950	1050	73.8	700.7	774.4	103	60	1.97	80	3.15
B	**EFDS 106-1100**	**615 166 037 0**	1	110	1100	1150	81.1	811.3	848.2	93	60	1.97	106	4.17
B	**EFDS 106-1600**	**615 166 038 0**	1 1/2	160	1600	1700	118.0	1180.1	1253.9	59	60	1.97	106	4.17
B	**EFDS 106-1900**	**615 166 039 0**	1 1/2	190	1900	2000	140.1	1401.4	1475.1	47	60	1.97	106	4.17

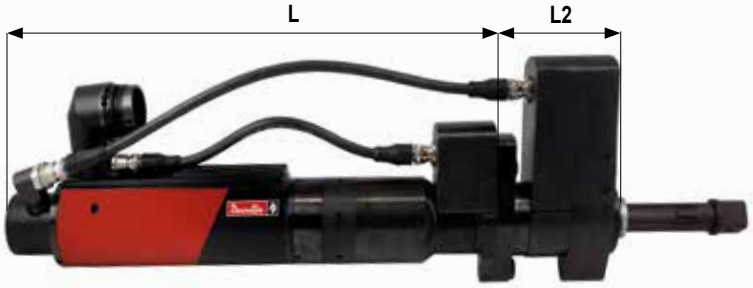
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Fixtured electric spindles - CVI3

5 to 250 Nm (0.7 to 206 ft.lb) - 409 to 2000 rpm



A



B

MODEL	LENGTH						D		WEIGHT					
	TOOL-L		MODULE-L1		MODULE-L2				TOOL		MODULE		MODULE TA	
	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb.	kg	lb.	kg	lb.
EFDE/EFDS 43-8-TA	276	10.9	165	6.5	90	3,54	10	0.39	2.1	4.63	0.65	1.43	1.45	3.20
EFDE/EFDS 43-15-TA	276	10.9	165	6.5	90	3,54	10	0.39	2.1	4.63	0.65	1.43	1.45	3.20
EFDE/EFDS 43-30-TA	311	12.2	165	6.5	90	3,54	10	0.39	2.3	5.07	0.65	1.43	1.45	3.20
EFDE/EFDS 43-45-TA	311	12.2	165	6.5	90	3,54	10	0.39	2.3	5.07	0.65	1.43	1.45	3.20
EFDE/EFDS 51-70-TA	357	14.0	183	7.2	98	3,86	16	0.63	3.9	8.60	1.45	3.20	2	4.41
EFDE/EFDS 51-135-TA	357	14.0	183	7.2	98	3,86	16	0.63	3.9	8.60	1.45	3.20	2	4.41
EFDE/EFDS 60-95-TA	373	14.7	183	7.2	98	3,86	16	0.63	5.3	11.7	1.45	3.20	2.8	6.17
EFDE/EFDS 60-175-TA	373	14.7	203	8.0	98	3,86	16	0.63	5.3	11.7	1.87	4.12	2.8	6.17
EFDE/EFDS 60-250-TA	373	14.7	203	8.0	98	3,86	16	0.63	5.3	11.7	1.87	4.12	2.8	6.17

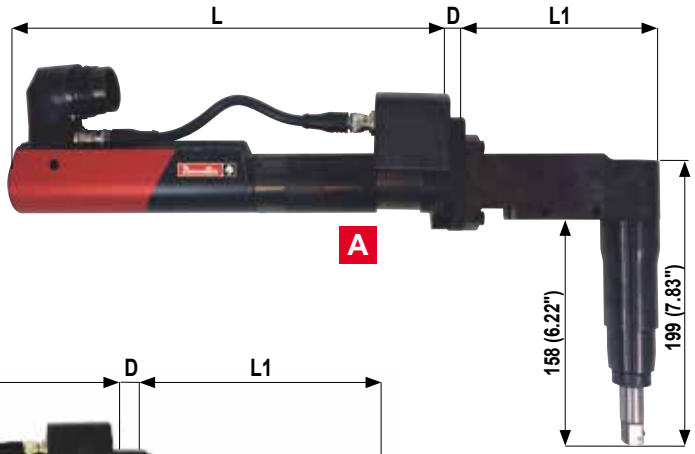
ACCESSOIRES
see page 46

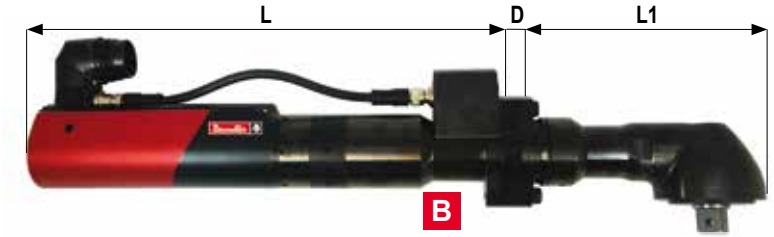
PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	TELESCOPIC STROKE		MIN.CENTRE DISTANCE	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.					
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.
EFDE-TA – With removable telescopic module & second transducer														
A	EFDE 43-15-TA	615 166 002 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
A	EFDE 43-30-TA	615 166 003 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
A	EFDE 43-45-TA	615 166 004 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
A	EFDE 51-70-TA	615 166 005 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2,01
A	EFDE 51-135-TA	615 166 006 0	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2,01
A	EFDE 60-95-TA	615 166 007 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2,36
A	EFDE 60-175-TA	615 166 008 0	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2,36
A	EFDE 60-250-TA	615 166 009 0	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2,36
EFDS-TA – With integrated telescopic output & second transducer														
B	EFDS 43-8-TA	615 166 010 0	3/8	5	8	10	3,7	5,9	7,4	2000	50	1.97	43	1,69
B	EFDS 43-15-TA	615 166 011 0	3/8	5	15	17	3,7	11,1	12,5	2000	50	1.97	43	1,69
B	EFDS 43-30-TA	615 166 012 0	3/8	7	30	32	5,2	22,1	23,6	1454	50	1.97	43	1,69
B	EFDS 43-45-TA	615 166 013 0	3/8	7	45	50	5,2	33,2	36,9	1112	50	1.97	43	1,69
B	EFDS 51-70-TA	615 166 014 0	1/2	20	70	80	14,7	51,6	59,0	816	50	1.97	51	2,01
B	EFDS 51-135-TA	615 166 015 0	1/2	30	135	150	22,1	99,6	111,0	463	50	1.97	51	2,01
B	EFDS 60-95-TA	615 166 016 0	1/2	22	95	105	16,2	70,1	77,4	1055	50	1.97	60	2,36
B	EFDS 60-175-TA	615 166 017 0	3/4	50	175	190	36,9	129,0	140,0	575	50	1.97	60	2,36
B	EFDS 60-250-TA	615 166 018 0	3/4	55	250	280	40,6	184,0	206,0	409	50	1.97	60	2,36

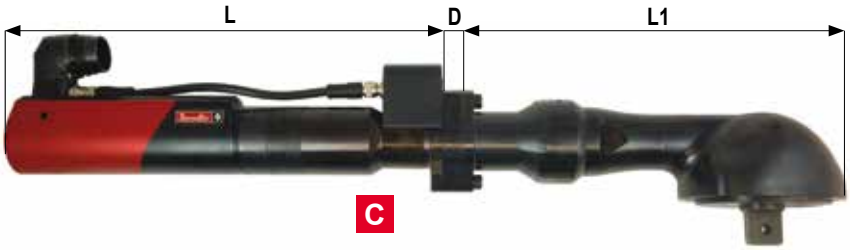
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Fixtured electric spindles - CVI3

12 to 580 Nm (0.7 to 206 ft.lb) - 170 to 719 rpm













TELESCOPIC STROKE		LENGTH L2		D1		PART NO.	FOR MODEL	D	
mm	in.	mm	in.	mm	in.			mm	in.
40	1.57	203	8.0	12	0.47	**615 398 076 0**	**EFDA51-110**	16	0.63
40	1.57	217	8.5	12	0.47	**615 398 077 0**	**EFDA63-190**	16	0.63
40	1.57	215	8.4	15	0.59	**615 398 078 0**	**EFDA76-300**	16	0.63
50	1.97	270	10.6	15	0.59	**615 398 161 0**	**EFDA107-450**	16	0.63

ACCESSOIRES
see page 46

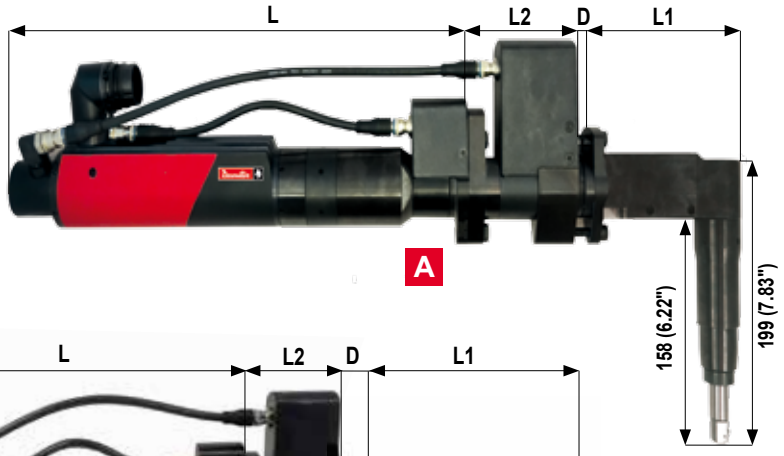
PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN.CENTRE DISTANCE		LENGTH				WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.				TOOL L		ANGLE HEAD L1			
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	kg	lb.
EFDA - Angle headed tools with integrated telescopic module																		
A	**EFDA40-55**	**615 165 858 0**	1/2	12	55	65	8.9	40.6	47.9	719	40	1.57	311	12.2	139	5.5	3.7	8.1
EFDA - Angle headed tools without telescopic module																		
B	**EFDA51-110***	-	1/2	45	110	150	33.2	81.1	111	590	51	2.01	373	14.7	168	6.6	7.2	15.8
B	**EFDA63-190**	**615 165 860 0**	3/4	80	190	250	59	140	184	320	63	2.48	373	14.7	191	7.5	8.1	17.8
B	**EFDA76-300***	-	3/4	100	300	380	73.7	221	280	270	76	2.99	373	14.7	284	11.2	9.7	21.3
C	**EFDA107-450**	**615 165 862 0**	1	150	450	580	110.6	332	428	170	107	4.21	373	14.7	322	12.7	12.4	27.3

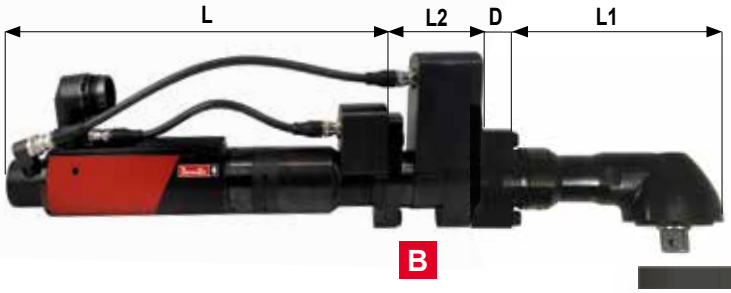
**On request, contact your Desoutter representative*

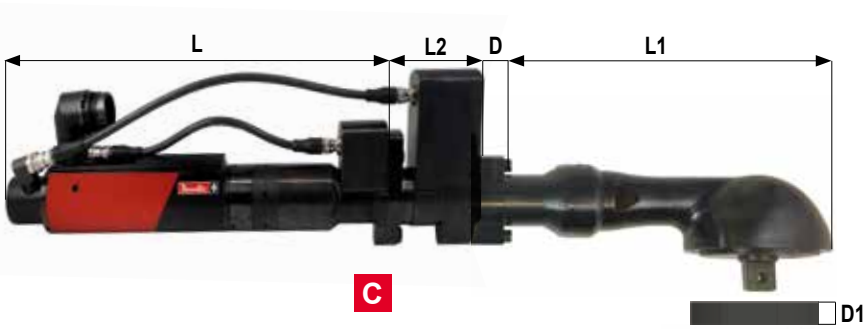
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Fixtured electric spindles - CVI3

12 to 580 Nm (0.7 to 206 ft.lb) - 174 to 719 rpm











ACCESSOIRES
see page 46

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH						WEIGHT			
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.				TOOL L		ANGLE HEAD L1		MODULE TA L-2		TOOL		MODULE TA	
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb.	kg	lb.
EFDA - Angle headed tools with integrated telescopic module																						
A	EFDA40-55-TA	615 166 019 0	1/2	12	55	65	8.9	40.6	47.9	719	41	1.59	311	12.2	139	5.5	90	3,54	3.7	8.1	1.35	2.98
EFDA - Angle headed tools & second transducer																						
B	EFDA63-190-TA	615 166 020 0	3/4	80	190	250	59	140.1	184.4	319	63	2.5	373	14.7	191	7.5	98	3,86	8.1	17.8	2.5	5.51
C	EFDA107-450-TA	615 166 021 0	1	150	450	580	110.6	331.9	427.8	174	107	4.21	373	14.7	322	12.7	98	3,86	12.4	27.3	2.5	5.51

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Accessories

Cable for ERP / EAD / EID / EFDE / EFDS / EFDA

CABLE FOR ERP TOOLS	PART NO.
Nutrunner cable 2.5m (8.2ft)	615 917 570 0
Nutrunner cable 5m (16ft)	615 917 492 0
Nutrunner cable 10m (32.8ft)	615 917 494 0
Nutrunner cable 15m (49.2ft)	615 917 495 0





CABLE FOR EAD & EID TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 601 0
Tool cable 5m (16ft)	615 917 602 0
Tool cable 10m (32.8ft)	615 917 604 0
Tool cable 15m (49.2ft)	615 917 605 0
Tool cable eFLEX 2.5m (8.2ft)	615 917 631 0
Tool cable eFLEX 5m (16.4ft)	615 917 632 0



CABLE FOR EFDE & EFDA TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 651 0
Tool cable 5m (16ft)	615 917 652 0
Tool cable 10m (32.8ft)	615 917 654 0
Tool cable 15m (49.2ft)	615 917 655 0

EXTENSION CABLE FOR ERP TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 083 0
Extension cable 10m (32.8ft)	615 917 084 0
Extension cable 15m (49.2ft)	615 917 085 0
Extension cable 20m (65.6ft)	615 917 086 0
Extension cable 25m (82ft)	615 917 087 0
Extension cable 30m (98ft)	615 917 088 0



EXTENSION CABLE FOR EAD - EID - EFDE & EFDA TOOLS	PART NO.
Ext. cable 8m (26.2ft)	615 917 581 0
Ext. cable 16m (52.5ft)	615 917 584 0
Ext. cable 32m (105ft)	615 917 587 0
Ext. cable 50m (164ft)	615 917 589 0



eBUS CABLE	PART NO.
eBUS cable 1m (3.3ft)	615 917 621 0
eBUS cable 3m (9.9ft)	615 917 622 0
eBUS cable 5m (16.4ft)	615 917 623 0
eBUS cable 15m (49.2ft)	615 917 624 0
eBUS Termination plug	615 917 625 0

TRANSDUCER HOLDERS FOR EFDE TOOLS	PART NO.
3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
3/4" Square drive EFDE60-175/250	615 396 428 0

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CVI3 Controllers

OPTIONAL ACCESSORIES

ITEM		PART NO.
Controllers		
1	Socket tray with tubes & inserts	615 936 095 0
•	Socket tray	615 936 071 0
2	Kit tubes & Inserts for Socket tray	615 398 035 5
3	Bit holder module for Socket tray	615 398 083 5
4	Bit Tray	615 936 080 0
5	Operator Panel (advanced)	615 936 072 0
6	Stack Light	615 936 073 0
7	I/O Expander	615 936 074 0
•	Y cable for RS232 port	615 917 620 0

ERP / EAD / EID

OPTIONAL ACCESSORIES

ITEM		PART NO.
Suspension bail		
8	Non swivelling - All tools up to EAD105/EID75	615 397 412 0
9	Swivelling - All tools up to EAD105/EID75	615 397 413 0
9	Swivelling - for tools EAD160/200/280-260 & EID120	615 571 072 0
Front trigger		
10	Mechanical kit for tools EAD20 to EAD105 & EID25 to EID75 (must be mounted on tool by authorized Desoutter service technician)	615 397 812 5
10	Electric kit for EAD20 to EAD32 & EID25 to EID32	615 911 013 5
10	Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 012 5
Telescopic output for EID tools		
11	3/8" for EID25/32	615 397 811 0
11	3/8" for EID44	615 398 178 0
11	1/2" for EID65/75	615 398 079 0
11	1/2" for EID120/170	615 398 080 0
11	3/4" for EID270/300	615 398 081 0
Telescopic output for EAD / EFDA tools		
12	1/2" for EAD160	615 398 076 0
12	3/4" for EAD200/280 & EFDA63-190	615 398 077 0
12	3/4" for EAD440	615 398 078 0
12	1" for EFDA107-450	615 398 161 0
Angle head protection for EAD tools		
13	For EAD20/32	615 573 207 0
13	For EAD50	615 573 208 0
13	For EAD70	615 573 209 0
13	For EAD80/105	615 573 210 0
In-line protection for EID tools		
14	For EID25/32	615 573 211 0
14	For EID44/65/75	615 573 212 0
Finger Protection for EAD tools		
15	For EAD20/32	615 397 635 0
15	For EAD50	615 397 636 0
15	For EAD70	615 397 637 0
Miscellaneous		
16	Handle lever	615 397 831 0
17	Trigger locker	615 397 842 0
18	Barcode reader + Headlight accessory - EAD/EID	615 812 138 0
19	Headlight accessory - EAD/EID	615 812 139 0
•	Mounting plate for custom arm - EAD160/200/280/440/660	Contact Desoutter
Desoutter Tool Holster		
20	DTH42 (For ERP3/5/10/20/30)	107892
21	DTH90 (For ERP3/5/10/20/30)	615 812 119 0
22	DTH TWIN (single) without rail	615 811 411 0
23	DTH TWIN rail kit with 2 Twin holders	615 811 412 5
24	DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5
•	D53 arms	See page 152
•	TRA telescopic reaction arms	See page 162
•	Balancers	See page 172

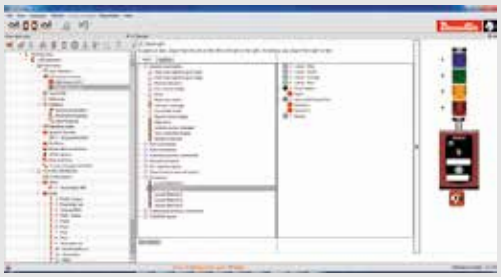
ITEM	ADAPTER FOR ERAL/ERDL/ERP/ EME AND ERS	PART NO.
25	CVI II Tool Adaptor	615 936 070 0
26	ERS module	615 936 537 0

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Programming and Real Time Monitoring Software

CVI CONFIG - PROGRAMMING (INCLUDING CVI MONITOR)





CVIKEY - ACCESS LEVEL MANAGEMENT



FEATURES

CVI CONFIG to set any point to point or via network with an intuitive and guided interface

User-friendly interface

- Configurable complete Assembly line view in the tree area
- Easy Tool/PSet setting including Quick Pset & learning mode
- PSet steps definition with drag & drop feature and Intuitive settings with curve template
- Fast learning curve with contextual help
- Real time error-proofing consistency check

Advanced process control

- Complete process logic mapping including tightening & non-tightening operations with Assembly Process

High flexibility

- Dynamic mapping for I/O, fieldbus with drag & drop feature
- Including Geopositioning set up
- 2 ways transfer of all parameters between stations & PC
- Real time access to tool parameters/counters (partial/ total number of cycles performed by the tool/cable)
- Test mode to check torque transducer, angle encoder, brushless motor
- Complete backup/restore of stations

CVI MONITOR (included in CVI CONFIG) to monitor results, maintenance and diagnostic in real time

Real-time Monitor

- Results
- Curves
- Statistics
- Export in csv format

Maintenance

- read the counters of the tools, controller and cables
- set preventive maintenance alarms
- reset the counters and alarms
- tool calibration
- autocalibration with Delta 6D

User info History

- Alarms history (logs)
- Problem solving guidance

CVIKEY to create & manage tailor-made access rights per user profile

Tailor made protection

- Intuitive software to create/manage access level
- Protection guaranteed by unique profile keys created by the adminis-tartor (locked against copy)

Simple interface

- Plug & Play USB key
- 4 profiles already available by default

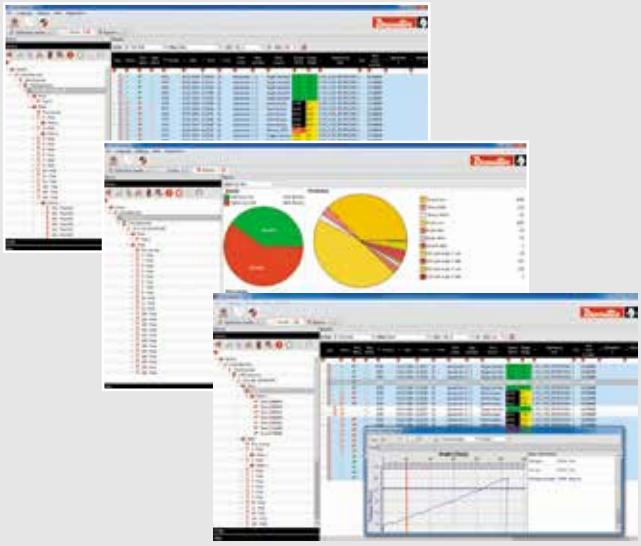
High flexibility

- Unlimited number of profiles
- Set up the right access level for the right

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Traceability and Data Collection Software

CVI ANALYZER - TIGHTENING DATA ANALYSIS



CVI NET WEB - DATA COLLECTION



FEATURES

CVI ANALYZER to import tightening data and analyze results thanks to customized filter and report.

Flexibility
- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Advanced customized filter definition
- Advanced data searching
- Multi tab view

Traceability
- Unlimited CVI3 results and curves collection in local DB through plant network
- Complete back-up solution
- PSet history
- Including data import from USB key
- Result and Curve export in cvs format

Analysis
- OK/NOK distribution
- NOK distribution reasons analysis

CVI NET WEB to collect in real time 100 % tightening data in server database and review with web based interface. Any PC connected to network can access to results without any software installation on different client, it's enough to type web page address.

Full Traceability
- Real Time result and curve collection
- Real Time tightening errors
- Data storage in Server architecture
- SQL Server, Oracle, MySQL support
- Automatic uploading of missing data from Controller
- Alarm in case of disconnection and FIFO inside controllers
- Curve overlay

Statistical Analysis and Documentation
- Advanced OK/NOK reports and control charts
- Advanced NOK pareto analysis
- Cm/Cmk analysis according different standards (ISO, CNOMO, NF)
- Error Code Analysis & CVI3 User Info pareto diagram
- Team productivity report

Flexibility
- Administrator User
- Customized views and Filters
- Groups and Teams management
- Complete Plant layout definition
- Smart Identifier filtering
- Quick VIN result filtering

Report printing
- Export all results and curve directly from web page
- PDF, csv or txt export format
- Direct Printing from web page
- Printing of all tightening of a vehicle or a components by scanning the proper bar code
- CVI3 Assembly Process result and complete report in PDF, xls format

Open Protocol Adapter License
- To collect results from any controller having Open Protocol capability
- To collect results from Delta Wrench WLAN

Notifier License
- To send customized email or on-line notification triggered by specific CVI3 User Info

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PivotWare - Advanced Process control

Process Control Platform INFINITY

Process Control Management Suite FUSION



Watch our videos on
www.youtube.com/DESOUTTERTOOLS







Software



Fusion Management Suite for configuring stations & processes, deployment control and remote monitoring



Production Management Module to manage products, sequencing and build requirements in each station.



Production Management Module

Structured sequence of work instructions and visual guidance delivered to operator for product variant requirements in station









Customer Line Control System

Integration with line control systems for data exchange, product in station, line running/start/stop signals and TAKT requirements



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		FOR FUSION PROGRAMMATION SOFTWARE		FOR INFINITY STATIONS	
Modules	*FUSION client Management & Monitoring of Processes, Devices & Installation*	*(per user) includes 1 reporting licence*	*6159277830*		
	Core engine Traceability, data storage	*additional process reporting pack (per user)*	*6159277840*	*1x station*	*6159277990*
				5x stations	*6159278000*
				10x stations	*6159278010*
				25x stations	*6159278020*
				50x stations	*6159278030*
				100x stations	*6159278040*
				200x stations	*6159278050*
	PMS Production Management System Builder/Planner/ Tracker	*To set the stations (per User)*	*6159277860*	*1x station*	*6159278200*
				5x stations	*6159278210*
				10x stations	*6159278220*
				25x stations	*6159278230*
				50x stations	*6159278240*
				100x stations	*6159278250*
				200x stations	*6159278260*
	QMS Quality Management system Shared steps, …	*To set the stations (per User)*	*6159277870*	*1x station*	*6159278060*
				5x stations	*6159278070*
				10x stations	*6159278080*
				25x stations	*6159278090*
				50x stations	*6159278100*
				100x stations	*6159278110*
				200x stations	*6159278120*

	PART NO.
Station	
INFINITY Client - 17" Panel PC with pre-loaded client software	**615 932 732 0**
INFINITY Module - 17" Panel PC with pre-loaded Module software	**615 932 733 0**
Sigma - 12" Panel PC with pre-loaded client software	**615 932 730 0**
Cable	
Power cord 2m - European	**615 917 201 0**
Power cord 2m - USA	**615 917 203 0**
Power cord 2m - UK	**615 917 202 0**
Power cord 2m - Chineese	**615 917 206 0**
Accessories	
INFINITY Micro 16I/O with M12 Connector Breakout	**615 936 324 0**
INFINITY/SIGMA Nano Kit	**615 936 327 0**



Centralised storage and packaged services to manage collection and synchronisation of data



Fusion Management Suite for interrogation and analysis of production data and product histories

Dynamic Tooling option providing up to 8 tools operating in parallel on a single product in station





Quality Checking & Repair Station utilising Quality Management System modules & services



Quality Management Module





On line rework of missed items using the QMS Shared Step features



Station Level TAKT monitoring and management in line with product variant requirements in station

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Transducerized Tools

Handheld Tools
- Brushless AC motor : virtually maintenance free
- Resolver : smooth angle control at any speed
- 6 leds OK / NOK signals

Fixtured electric spindles
- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range





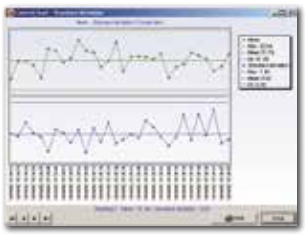
Controllers

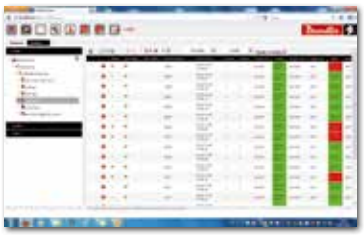


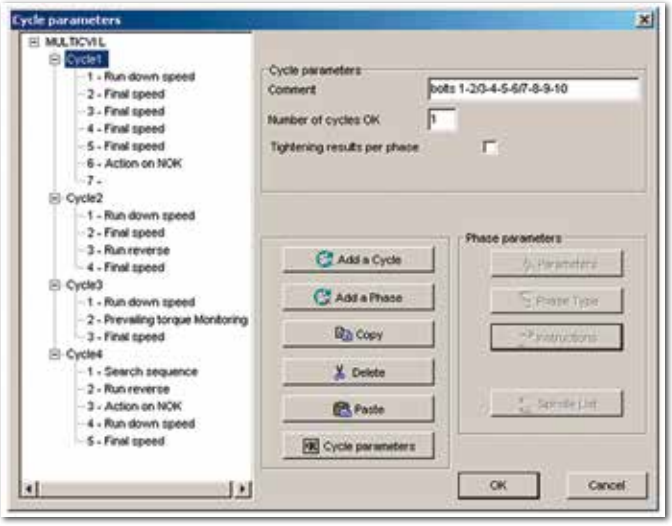
Communication

CVIPC2000 software is a user friendly tool able to program tightening cycles, collect and display results and curves

CVINET WEB to collect & store 100 % tightening data in real-time database with advanced analytics via a web based software in service mode from all Desoutter tightening controllers







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Controller - CVIR II-H4





Optional
Kit IP54 CVIx2



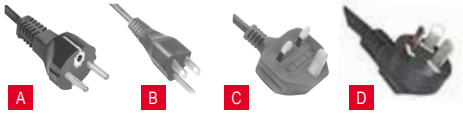
MAIN FUNCTIONS	CVIR II H4
Programming modes	
Number of cycles	50
Number of phases	15
Reverse	✓
1 sequence	8 cycles
Batch count	999
Barcode reading (cycle selection)	✓
LCD screen and display	✓
CVIPC software	✓
Phases characteristics	
Search sequence	✓
Run down speed phase	✓
Final speed phase	✓
Jump to another phase	✓
Cycle characteristics	
Autorized directions	✓
Disengagement parameters	✓
Tigtening results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Date+Time+Report	2000 to 10000 according to configuration
Number of curves	10
Tightening strategies	
Torque control	✓
Torque control + Angle monitoring	✓
Angle control + Torque monitoring	✓
Maintenance	
Access to all tool memory parameters	✓
Autotest of the complete system	✓
Calibration of the tool (supervisor mode)	✓

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
						WIDTH		HEIGHT		DEPTH			
			115 V	230 V	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
CVIR II H4	**615 932 685 0**	ERP-HT	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5.9	13

Software, Upgrade kits...

POWER CORD
to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 201 0**
B	US	**615 917 203 0**
C	UK	**615 917 202 0**
D	Chinese	**615 917 206 0**



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	**615 927 522 0**
CVI PC2000 advance 1 install	**615 927 523 0**
CVINET WEB 1 controller	**615 927 736 0**
Open protocol 1 license	**615 927 830 0**





OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54 CVIx2	**615 932 684 5**
• Shelf support - Aluminium profile	**615 397 403 5**
• BRDx2 (Backup Rescue Device)	**615 936 328 0**

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	**615 927 594 0**
Profibus DP Module	**615 927 595 0**
ProfiNet Module (1 port)	**615 927 596 0**
ProfiNet Module (2 ports)	**615 927 597 0**
CC-Link Module	**615 927 598 0**
Devicenet Module	**615 927 599 0**
MODBUS TCP Slave	**615 927 615 0**

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Electric transducerized High torque - CVIR II

75 to 1700 Nm (55 to 1253 ft.lb) - 85 to 822 rpm

The transducerized nutrunners range ERP is dedicated to high torque applications, especially structural assemblies requiring accuracy and traceability







desoutter.info/ERP



PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE				MAX RUNDOWN TORQUE	SPEED	GEARBOX DIAMETER		LENGHT		WEIGHT		SPLINE
				MIN.	MAX.	MIN.	MAX.									
			in.	Nm	Nm	ft.lb	ft.lb	Nm	rpm	mm	in.	mm	in.	kg	lb	
A	ERP250	615 165 883 0	3/4	75	250	55	184	18	822	54	2.13	355	13.9	5.1	11.2	3
B	ERP500	615 165 884 0	3/4	150	500	110	368	37	347	67	2.64	390	15.3	5.8	12.8	4
C	ERP750	615 165 885 0	1	225	750	165	553	56	245	67	2.64	410	16.1	6.2	13.7	5
C	ERP1000	615 165 886 0	1	300	1000	221	737	75	205	67	2.64	420	16.5	6.4	14.1	5
•	ERP1700	615 165 887 0	1	510	1700	376	1253	127	85	84	3.31	455	17.9	8.3	18.3	9

OPTIONAL ACCESSORIES



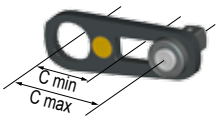
REACTION BARS	SPLINE	1 STRAIGHT	2 S-TYPE	3 L TYPE ALUMINIUM	4 SQUARE	5 SLIDDING DRIVE	6 SLIDDING DRIVE EXTENDED C-C	7 SUSPENSION BAIL	8 SIDE HANDLE
ERP250	3	615 812 097 5	615 812 068 5	615 812 072 5	615 812 057 5	615 812 113 5	N/A	615 812 123 0	615 576 085 0
ERP500	4	615 812 054 5	615 812 069 5	615 812 073 5	615 812 058 5	615 812 062 5	615 812 063 5	615 812 123 0	615 576 085 0
ERP750 / ERP1000	5	615 812 055 5	615 812 070 5	N/A	615 812 059 5	615 812 064 5	615 812 065 5	615 812 123 0	615 576 085 0
ERP1700	9	615 812 056 5	615 812 071 5	N/A	615 812 060 5	615 812 066 5	615 812 067 5	615 812 123 0	615 576 085 0



NUTRUNNER CABLE	PART NO.
Tool cable 3m (9.8ft)	615 917 461 0
Tool cable 5m (16ft)	615 917 462 0
Tool cable 10m (32.8ft)	615 917 464 0
Tool cable 15m (49.2ft)	615 917 465 0



EXTENSION CABLE	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32.8ft)	615 917 224 0



Slidding drive C-C

PART NO.	C MIN	C MAX
	mm (in.)	mm (in.)
615 812 113 5	70 (2.76)	120 (4.72)
615 812 062 5	76 (3)	126 (4.96)
615 812 063 5	82 (3.23)	218 (8.58)
615 812 064 5	80 (3.15)	125 (4.92)
615 812 065 5	82 (3.23)	218 (8.58)
615 812 066 5	80 (3.15)	130 (5.11)
615 812 067 5	80 (3.15)	280 (11.0)

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Controller - CVIR II

Error proofing and flexibility

Advanced control unit with flexibility and technology
• Easy integration into your assembly line with multiple choices of connectivity





ERS
Transducerized technology



ECS
Current Control Technology

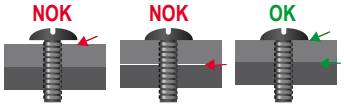
COMMUNICATION

- 1 Ethernet port for CVIPC or network communication
- 1 RS232 port to connect barcode readers or CVIPC 2000
- 8 Inputs and 8 Outputs
- 1 Optional fieldbus module

Innovative Tightening Strategy

Seating detection

Detect the screw head contact on your part by torque rate management, even with material variation



MAIN FUNCTIONS	CVIR II
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	**50**
Number of phases available	**15**
Phase characteristics	
Search sequence	✓
Approach	✓
Run down speed	✓
Final speed phase	✓
Action on NOK	✓
Run reverse	✓
Jump to another phase	✓
Prevailing Torque	✓
Synchronisation phase	✓
Tightening strategies	
Torque	✓
Torque with angle monitoring	✓
Angle with torque monitoring	✓
Yield point	✓
Seating detection	✓
Number of stored results	2000 to 10000 according configuration

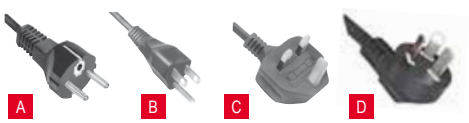
QUALITY GUARANTEED

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
						WIDTH		HEIGHT		DEPTH			
			115 V	230 V	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
CVIR II	**615 932 681 0**	ERS/ECS	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5	11

Software, Upgrade kits...

POWER CORD
to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 201 0**
B	US	**615 917 203 0**
C	UK	**615 917 202 0**
D	Chinese	**615 917 206 0**



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	**615 927 522 0**
CVI PC2000 advance 1 install	**615 927 523 0**
CVINET WEB 1 controller	**615 927 736 0**
Open protocol 1 license	**615 927 830 0**



OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	**615 917 047 0**
• 37 pin D-Sub female I/O adapter	**615 919 003 0**
• Shelf support - Aluminium profile	**615 397 403 5**
• BRDx2 (Backup Rescue Device)	**615 936 328 0**

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	**615 927 594 0**
Profibus DP Module	**615 927 595 0**
ProfiNet Module (1 port)	**615 927 596 0**
ProfiNet Module (2 ports)	**615 927 597 0**
CC-Link Module	**615 927 598 0**
Devicenet Module	**615 927 599 0**
MODBUS TCP Slave	**615 927 615 0**

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Electric transducerized screwdrivers - CVIR II

0.6 to 27 Nm (5.3 to 239 ft.lb) – 280 to 3000 rpm

The transducerized screwdrivers range ERS is dedicated for all type of tightening which required accuracy and traceability



A



B



C

Visible & Programmable reporting LED System



Good Report



Bad Report





Programmable

Tool Ready, Tool in Cycle, Maintenance Alert, and more.

ACCESSORIES
see page 67

To connect with CVI3 controller, ERS module is needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				SPEED	WEIGHT	
				MIN.	MAX.	MIN.	MAX.			
			in.	Nm	Nm	ft.lb	ft.lb	rpm	kg	lb
A	ERS2	615 165 688 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6	615 165 689 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12	615 165 690 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS2-M20	615 165 691 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6-M20	615 165 692 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12-M20	615 165 693 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS22-M20	615 165 916 0	Sq.3/8	6.0	22	53.1	194.7	380	1.05	2.31
B	ERSA2	615 165 697 0	Hex.1/4F	0.6	2.5	5.3	22.1	2500	1.0	2.2
B	ERSA6	615 165 698 0	Hex.1/4F	1.0	6.0	8.8	53.1	1450	1.0	2.2
B	ERSA12	615 165 699 0	Hex.1/4F	2.0	12	17.7	106.2	800	1.0	2.2
B	ERSA27	615 165 917 0	Sq.3/8	8.0	27	70.8	239	280	1.25	2.75
C	ERSF2	615 165 694 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
C	ERSF6	615 165 695 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
C	ERSF12	615 165 696 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
C	*ERSF2-03	615 166 068 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
C	*ERSF6-03	615 166 069 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
C	*ERSF12-03	615 166 070 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54

**Models with 30cm integrated cable instead of 4 meters*

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Electric transducerised Very Low Torque – CVIXS

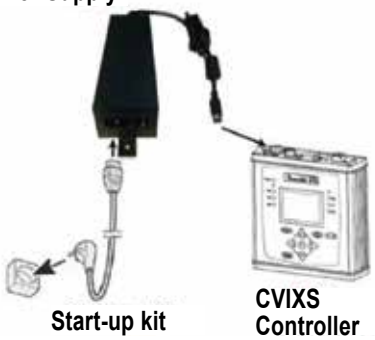




MAIN FUNCTIONS	
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	**50**
Number of phases available	**15**
Phase characteristics	
Search sequence	✓
Run down speed	✓
Final speed phase	✓
Action on NOK	✓
Run reverse	✓
Jump to another phase	✓
Prevailing Torque	✓
Synchronisation phase	✓
Tightening strategies	
Torque	✓
Torque with angle monitoring	✓
Angle with torque monitoring	✓
Seating detection	✓
Stall torque	✓
Number of stored results	2000 to 10000 according configuration

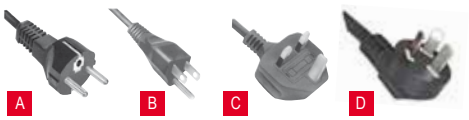
Controller features

Power Supply

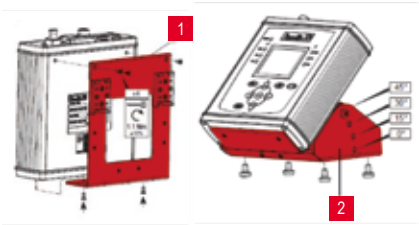


Start-up kit

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 201 0**
B	US	**615 917 203 0**
C	UK	**615 917 202 0**
D	Chinese	**615 917 206 0**



CVIXS supports



ITEM	DESCRIPTION	PART NO.
1	KIT RAIL DIN SUPPORT CVIXS	**615 812 231 0**
2	KIT ANGLE SUPPORT CVIXS	**615 812 232 0**

CVIXS fieldbus communication: order fieldbus module + fieldbus protocol

FIELDBUS PROTOCOL	MODEL	PART NO.
1	Fieldbus Module	**615 932 721 0**
2	Ethernet IP Module	**615 929 051 0**
3	Profibus DP Module	**615 929 052 0**
4	ProfiNet Module (1 port)	**615 929 053 0**
5	ProfiNet Module (2 ports)	**615 929 054 0**
6	CC-Link Module	**615 929 055 0**
7	Devicenet Module	**615 929 056 0**
8	MODBUS TCP Slave	**615 929 057 0**

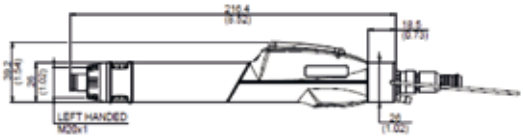
MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)	SUPPLY VOLTAGE	DIMENSIONS						WEIGHT	
					WIDTH		HEIGHT		DEPTH			
			W		mm	in.	mm	in.	mm	in.	kg	lb.
CVIXS CONTROLLER	**615 932 720 0**	ERXS	150	36 VDC	171,6	6,73	171	6,75	54,6	2,15	1,12	2,2
CVIXS POWER SUPPLY	**615 932 663 0**	CVIXS	72-180	100-240 VAC	65	2,56	50	8,07	50	1,97	0,97	2,13

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Electric transducerised Very Low Torque – NANO DRIVER



A



Transducerized tool for Extreme Precision

- 4mm wing shank and half moon bits for the smallest screws
- Safety Critical Repeatability
- Traceability using internal transducer

Ergonomic Design

- Streamlined & contoured
- Non-slip Tool Housing
- Push / Lever start
- Highly Flexible Light Weight Industrial Cable
- M20 output thread for easy integration and automatization

Programmable Vacuum System Activation Options

- Built in Accelerometer
- Dedicated connector for 24V vacuum pump

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				MAX SPEED	LENGTH		WEIGHT	
				MIN	MAX	MIN	MAX					
				Ncm	Ncm	in/lb	in/lb	rpm	mm	in.	kg	lb
A	**ERXS 20**	**615 165 874 0**	WS-HM	6	20	0,53	1,77	1000	216	8,5	0,3	0,66
A	**ERXS 50**	**615 165 875 0**	WS-HM	15	50	1,32	4,43	1000	216	8,5	0,3	0,66
A	**ERXS 80**	**615 165 876 0**	WS-HM	24	80	2,12	7,08	1000	216	8,5	0,3	0,66

DESCRIPTION	PART NO.
TOOL & EXTENSION CABLE 3 METERS - 9,8 FT*	**615 917 643 0**

**Connect up to 3 cables (max 9 Meters - 29,5 ft)*

ACCESSORIES

ITEM		PART NUMBER
Vacuum solution		
1	"Blank nozzle short : 40mm. To be machined according to screw"	**615 704 033 0**
2	"Blank nozzle long : 60mm. To be machined according to screw"	**615 704 034 0**
3	"Vaccum adapter kit. For tool handheld. To be ordered with a blank nozzle"	**615 812 883 0**
Arms		
4	D53-5	**615 810 700 0**
5	D53-5S	**615 810 706 0**
6	Special clamp	**615 812 885 5**
Bits		
7	Refer to accessories catalogue	-
Miscellaneous		
8	Flange M20 for automatization	**205 052 875 3**
9	DTH42 Tool holster	**107892**

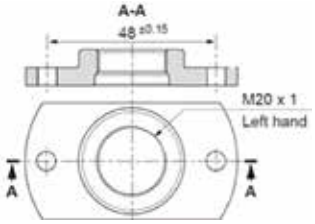

1


2


3


5


9



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Controller - CVIL II

Flexible integration









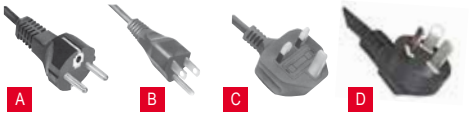
FEATURES	CVIL II
General functions	
Number of cycles	50
Number of phases	15
Batch count	999
Bar code reading via RS232 port	✓
Programming	
LCD screen and display	✓
CVIPC software	✓
Tightening results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Data+Time+Report	up to 10 000
Number of curves (flexibility with OK and NOK)	10

MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
					WIDTH		HEIGHT		DEPTH			
		115 V	230 V	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
CVIL II	**615 932 680 0**	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5.9	13

Software, Upgrade kits...

POWER CORD
to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 201 0**
B	US	**615 917 203 0**
C	UK	**615 917 202 0**
D	Chinese	**615 917 206 0**



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	**615 927 522 0**
CVI PC2000 advance 1 install	**615 927 523 0**
CVINET WEB 1 controller	**615 927 736 0**
Open protocol 1 license	**615 927 830 0**



OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	**615 917 047 0**
• 37 pin D-Sub female I/O adapter	**615 919 003 0**
• Shelf support - Aluminium profile	**615 397 403 5**
• BRDx2 (Backup Rescue Device)	**615 936 328 0**

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	**615 927 594 0**
Profibus DP Module	**615 927 595 0**
ProfiNet Module (1 port)	**615 927 596 0**
ProfiNet Module (2 ports)	**615 927 597 0**
CC-Link Module	**615 927 598 0**
Devicenet Module	**615 927 599 0**
MODBUS TCP Slave	**615 927 615 0**

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Electric pulse nutrunners - E-PULSE

10 to 25 Nm (7.4 to 18.4 ft.lb) - 4600 rpm

ADVANCED ERGONOMICS

- Reaction free
- Soft grip and slim handle
- Low weight tool

OPTIMIZED MAINTENANCE

- No oil to change
- Brushless electric motor
- Long life gearbox

INCREASED PRODUCTIVITY

- Max. speed 4600 rpm
- Point and shoot solution
- Pistol tool 30 % shorter time to locate bolt

IMPROVED ENVIRONMENT

- Reduce CO2 emission
- Clean workspace
- Reduce energy consumption













desoutter.info/ELRT

ACCESSORIES
see page 67

PIC REF	PART NUMBER	MODEL	OUTPUT DRIVE	OUTPUT RETAINING TYPE	TORQUE				ROTATIONAL MAX SPEED	LENGTH		WEIGHT		INTEGRATED CABLE
					MIN	MAX	MIN	MAX						
			in.		Nm	Nm	ft.lb	ft.lb	rpm	mm	in.	kg	in.	
A	615 165 838 0	ELRT025-P4600-10S	Sq. 3/8	Trough hole	10	25	7.4	18.4	4600	228	9.0	1.3	2.9	N/A
B	615 165 890 0	ELRT025-P4600-4Q	Hex.1/4	Quick change chuck	10	25	7.4	18.4	4600	228	8.7	1.3	2.9	N/A
C	615 166 040 0	ELRT025T-10S-5	Sq 3/8	Trough hole	10	25	7.4	18.4	4600	255	10.0	2.6	5.7	5 meters
C	615 166 047 0	ELRT25T-10S-1	Sq 3/8	Trough hole	10	25	7.4	18.4	4600	255	10.0	2.1	4.6	1 meter
D	615 166 041 0	ELRT25T-4Q-5	Hex.1/4	Quick change chuck	10	25	7.4	18.4	4600	249	9.8	2.6	5.7	5 meters
D	615 166 048 0	ELRT25T-4Q-1	Hex.1/4	Quick change chuck	10	25	7.4	18.4	4600	249	9.8	2.1	4.6	1 meter
E	615 166 022 0	ELRT045-P4900-10S	Sq 3/8	Trough hole	20	45	14.8	33.2	4900	244	9.6	1.7	3.7	N/A
F	615 166 042 0	ELRT045T-10S-5	Sq 3/8	Trough hole	20	45	14.8	33.2	4900	271	10.7	3.0	6.6	5 meters
F	615 166 049 0	ELRT045T-10S-1	Sq 3/8	Trough hole	20	45	14.8	33.2	4900	271	10.7	2.5	5.5	1 meter

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Handheld electric tools

Pistol grip electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOMMENDED	MAX	MIN.	RECOMMENDED	MAX					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb
ERP3L	615 165 193 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
ERP5L	615 165 194 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4.0	2000	196	7.7	1.0	2.2
ERP10L	615 165 195 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
ERP20L	615 165 196 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
ERP20S	615 165 197 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
ERP30S	615 165 198 0	Sq. 3/8	5.0	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
ERP40S	615 165 263 0	Sq. 3/8	6.0	40	42	4.4	29.5	31	680	274	10.8	1.7	3.7
ERP3LT	615 165 227 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
ERP5LT	615 165 228 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
ERP10LT	615 165 229 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
ERP20LT	615 165 230 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4



Angle head electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOMMENDED	MAX	MIN.	RECOMMENDED	MAX					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb
ERAL1.5-15	615 165 356 0	Sq. 3/8	2	15	18	1.5	11	13.3	1511	408	16.1	1.35	3.0
ERAL1.5-25	615 165 357 0	Sq. 3/8	3	20	25	2.2	14.7	18.4	1511	408	16.1	1.35	3.0
ERAL2.30	615 165 362 0	Sq. 3/8	5	20	30	3.7	14.7	22	1511	433	17	1.55	3.4
ERAL2.40	615 165 363 0	Sq. 3/8	7	30	40	5.2	22	29.5	1169	433	17	1.6	3.5
ERAL2-60	615 165 364 0	Sq. 3/8	8	45	60	5.9	33	44	918	443	17.5	1.7	3.7
ERAL2-80	615 165 365 0	Sq. 3/8	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL2-80 SQ1/2	615 165 406 0	Sq. 1/2	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL4-90	615 165 384 0	Sq. 1/2	15	70	90	11	51.6	66	690	552	21.7	3.5	7.7
ERAL4-110	615 165 385 0	Sq. 1/2	20	90	110	14.7	66	81	540	552	21.7	3.5	7.7
ERAL4-120	615 165 386 0	Sq. 1/2	25	115	120	18.4	85	88.4	380	552	21.7	3.5	7.7
ERAL4-140	615 165 387 0	Sq. 1/2	30	125	140	22	92	103	360	554	21.8	3.7	8.1
ERAL4-170	615 165 388 0	Sq. 1/2	35	150	170	26	110.5	125	300	554	21.8	3.7	8.1
ERAL4-225	615 165 389 0	Sq. 3/4	60	200	225	44	147	166	220	604	23.8	3.9	8.6
ERAL6-135	615 165 390 0	Sq. 1/2	30	125	135	22	92	100	640	639	25.2	6.2	13.7
ERAL6-170	615 165 441 0	Sq. 1/2	30	150	170	22	110	125	520	639	25.2	6.2	13.7
ERAL6-280	615 165 391 0	Sq. 3/4	50	250	280	37	184	206	300	661	26	6.3	13.9
ERAL6-350	615 165 392 0	Sq. 3/4	75	300	350	55	221	258	250	702	27.6	8.0	17.6
ERAL6-480	615 165 393 0	Sq. 3/4	100	400	480	73	295	354	190	702	27.6	8.0	17.6



In-line electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOMMENDED	MAX	MIN.	RECOMMENDED	MAX					
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb
ERD5J	615 165 060 0	Hex. 1/4 F	0.5	6	8	0.37	4.4	5.9	2070	379	14.9	1.3	2.9
ERDL1.5-12	615 165 366 0	Hex. 1/4 F	2	10	12	1.5	7.4	8.8	1586	365	14.4	1.3	2.9
ERDL1.5-20	615 165 367 0	Hex. 1/4 F	3	15	20	2.2	11	14.7	1586	365	14.4	1.3	2.9
ERDL1.5-30	615 165 368 0	Sq. 3/8	5	20	30	3.7	14.7	22	1586	357	14	1.3	2.9
ERDL2-40	615 165 369 0	Sq. 3/8	7	30	40	5.2	22	29.5	1159	382	15	1.5	3.3
ERDL2-50	615 165 370 0	Sq. 3/8	8	40	50	5.9	29.5	36.9	898	382	15	1.5	3.3
ERDL4-60	615 165 407 0	Sq. 3/8	20	50	60	14.7	36.8	44.2	1030	475	18.7	2.8	6.2
ERDL4-80	615 165 394 0	Sq. 1/2	20	70	80	14.7	51.6	59	650	475	18.7	2.8	6.2
ERDL4-135	615 165 395 0	Sq. 1/2	30	120	135	22.1	88.4	99.6	400	502	19.8	3.3	7.3
ERDL6-170	615 165 396 0	Sq. 1/2	40	150	170	29.5	110.5	125.3	530	590	23.2	5.9	13
ERDL6-220	615 165 397 0	Sq. 3/4	50	200	220	36.8	147.4	162	380	597	23.5	5.9	13
ERDL6-250	615 165 398 0	Sq. 3/4	60	230	250	44.2	169	184	290	597	23.5	5.9	13



ACCESSORIES
see page 67

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MultiCVIL II - Main Features

MULTICHANNEL SYSTEM

Drive up to 32 fixtured spindles
One CVIL Master + x times CVIL Slave

Through CVIPC2000 (to Master only)

Cycles Phases management
- 31 different cycles
- Combines up to 20 phases in a fastening cycle

Data collection
- CVIPC2000
- CVINET WEB

Fieldbuses
- By additional modules
- By Ethernet ports
- Flexible mapping

Isagraf, embedded PLC software to manage :
- Assembly station
- HMI

FIXTURED SPINDLES

- From 1 to 1900Nm
- EME straight
- EMEOF with Offset for close center distance application
- EMEL "L" shape reduces the height of the tool
- High accuracy
- A10 class
- Digital communication between the tool and controller
- Memory chip with all characteristics of the tool : transducer sensitivity, gear ratio, maintenance info, etc...

ONE CABLE

- Motor power
- Digital connection of the transducer and memory device
- Up to 45 meters
- Design to be used in robot applications



Flexibility of tightening process

EASY PROGRAMMING OF THE TIGHTENING SEQUENCE WITH FULL SYNCHRONIZATION

Run Down phase
Spindle 1-2-3-4-5-6-7-8-9-10

Final Speed phase
Spindle 1-2

Final Speed phase
Spindle 3-4-5-6

Final Speed phase
Spindle 7-8-9-10

Automatic Repair Action
Reverse all spindles and retry once
Jump to phase 2

End of the cycle
Reporting



CVIPC



MAIN FUNCTIONS	MULTICVIL II
Number of channels	1 to 32
Number of cycles	31
Number of phases	20
Batch count	999
Bar code reading via RS232 port	
Tightening results	
Torque + Angle + Date + Time + Report	up to 32 000
Number of curves (per channel)	10
Tightening strategies	
Torque control + angle monitoring	✓
Angle control + torque monitoring	✓
T control + (Angle + torque rate) monitoring	✓
Angle control + (Torque + torque rate) monitoring	✓
Yield point strategy	✓
Stall torque	✓
Prevailing torque	✓
Current monitoring	✓
Reverse at Angle control	✓
Tightening connectivity	
Input/Output	8/8
RS232 port	OK
Ethernet RJ45	8 sockets
Fieldbuses	Optional module
Embeded PLC software	OK
IP54	Optional module
Emergency stop	2 channels

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Controllers - MultiCVIL II



MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
					WIDTH		HEIGHT		DEPTH			
		115 V	230 V	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
CVIL II M (Master)	**615 932 682 0**	4A	2A	Single phase	130	5.1	278	10.9	291	11.5	5.9	13
CVIL II S (Slave)	**615 932 683 0**	4A	2A	Single phase	130	5.1	278	10.9	291	11.5	5.9	13
Multicombox	**615 929 044 0**											



OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54	**615 932 684 0**

Fieldbus module

MODEL	PART NO.
• Ethernet IP Module	**615 927 594 0**
• Profi bus DP Module	**615 927 595 0**
• ProfiNet Module (1 port)	**615 927 596 0**
• ProfiNet Module (2 ports)	**615 927 597 0**
• Devicenet Module	**615 927 599 0**
• MODBUS TCP Slave	**615 927 615 0**
• Shelf support - Aluminium profile	**615 397 403 5**

Kit version



One CVIL-Master



n.CVIL-Slaves



Software CVIPC 2000
+ Power cord



Multicombox

Contact your Desoutter representative for assistance



Also available :
Specially designed a frame to secure controllers and ensure safe and tidy wiring

Turn Key Solution



One CVIL-Master



n.CVIL-Slaves



Software CVIPC 2000
+ Network cables & Power cord



One power box supply with
E Stop - Ethernet switches
Multicombox - Circuit breakers

Powerbox depending on power supply





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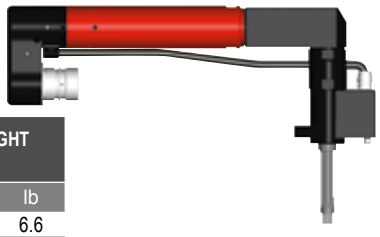
High durability of EME tools

- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range



MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
		in.	Nm	ft.lb	rpm	mm	in.	mm	in.	kg	lb
EME35-10J	**615 165 423 0**	3/8	1-8	0.7-5.9	2067	43.2	1.7	283	11.1	1.7	3.7
EME35-20J	**615 165 424 0**	3/8	4-15	2.1-11	2067	43.2	1.7	308	12.1	2.0	4.4
EME38-10J	**615 165 425 0**	3/8	9-30	6.6-22	1287	43.2	1.7	355	14	2.0	4.4
EME38-20J	**615 165 426 0**	3/8	10-45	7.4-33	1092	43.2	1.7	355	14	2.0	4.4
EME51-10J	**615 165 427 0**	1/2	20-70	15-52	650	51.2	2.0	374	14.7	2.9	6.4
EME51-20J	**615 165 428 0**	1/2	30-135	22-99	403	51.2	2.0	401	15.8	3.5	7.7
EME60-10J	**615 165 429 0**	1/2	20-95	15-70	923	60.2	2.4	431	16.9	4.8	10.6
EME60-20J	**615 165 430 0**	3/4	50-175	37-129	507	60.2	2.4	431	16.9	4.8	10.6
EME60-30J	**615 165 431 0**	3/4	70-250	52-184	299	60.2	2.4	467	18.4	5.2	11.5
EME80-10J	**615 165 432 0**	3/4	80-300	59-221	286	80.2	3.2	494	19.5	9.8	21.6
EME80-20J	**615 165 433 0**	3/4	120-450	88-221	195	80.2	3.2	494	19.5	9.8	21.6
EME80-30J	**615 165 434 0**	1	180-650	133-479	130	80.2	3.2	494	19.5	9.8	21.6
EME80-40J	**615 165 435 0**	1	220-800	162-590	91	80.2	3.2	494	19.5	9.8	21.6
EME80-50J	**615 165 436 0**	1	220-1000	162-737	72	80.2	3.2	494	19.5	9.8	21.6
EME106-10J	**615 165 437 0**	1	430-1500	317-1105	52	106.2	4.2	564	22.2	15	33.1
EME106-20J	**615 165 438 0**	1	540-1900	398-1400	39	106.2	4.2	564	22.2	15	33.1

EMEL shape for close access



MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
		in.	Nm	ft.lb	rpm	mm	in.	mm	in.	kg	lb
EMEL38-20J	**615 165 517 0**	3/8	10-45	7.4-33.2	1092	43.2	1.7	140.5	5.5	3.0	6.6
EMEL51-20J	**615 165 518 0**	1/2	30-135	22-99.5	403	51.2	2.0	166	6.5	4.0	8.8
EMEL60-20J	**615 165 519 0**	3/4	50-175	37-129	481	60.2	2.4	178	7	6.0	13.2
EMEL60-30J	**615 165 520 0**	3/4	70-250	52-184	312	60.2	2.4	178	7	6.0	13.2
EMEL80-40J	**615 165 521 0**	1	220-800	162-590	91	80.2	3.2	241	9.5	11	24.2

EME Offset with torque transducer in line with the output shaft

Increase access by using smallest CC distances offered

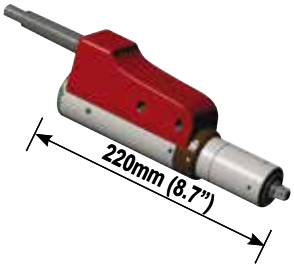


MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LONGUEUR		LENGTH	
		in.	Nm	ft.lb	rpm	mm	in.	mm	in.	kg	lb
EME24-20 OF	**615 165 512 0**	3/8	4-20	2.9-15	1225	24	0.95	375.2	14.8	2.7	5.9
EME26-50 OF	**615 165 513 0**	3/8	7-50	5.2-40	985	26	1.02	387.5	15.2	2.7	5.9
EME30-80 OF	**615 165 514 0**	1/2	10-80	7.4-59	580	30	1.18	414.3	16.3	3.9	8.6
EME36-140 OF	**615 165 515 0**	1/2	19-140	14-103	375	36	1.42	454.4	17.7	4.7	10.4
EME40-180 OF	**615 165 516 0**	3/4	25-180	18-133	475	40	1.57	481.7	18.9	6.4	14.1
EME44-300 OF	**615 165 602 0**	3/4	80-300	59-221	217	45	1.77	632.5	24.9	11	24.2

Fixtured electric spindles ERF

For your assembly applications, Desoutter offers a range of fixtured electric spindles, transducerized or current controlled with integrated cable

MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ERF3L	**615 165 286 0**	0.35 - 3	0.26 - 2.2
ERF5L	**615 165 287 0**	0.5 - 5	0.37 - 3.7
ERF10L	**615 165 288 0**	3 - 10	2.2 - 7.4
ERF20L	**615 165 289 0**	5 - 20	3.7 - 14.8
ERF20S	**615 165 290 0**	5 - 20	3.7 - 14.8
ERF30S	**615 165 291 0**	7 - 30	5.2 - 22.1



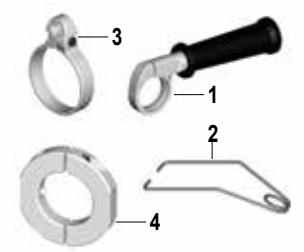
For further information about the technical data see pages 61 and 73

ACCESSORIES
see page 67

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Accessories

ERP / ERAL / ERDL



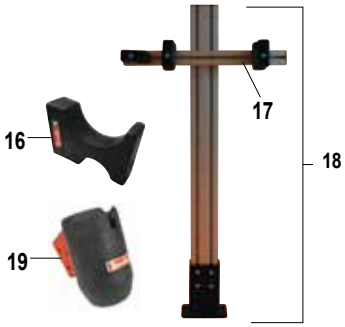
ACCESSORIES INCLUDED

ITEM		PART NO. ERP	ERAL	ERLD
1	Side handle	467033		
2	Suspension bail	467003		
3	Horizontal bail ERAL - ERDL1.5 / 2		615 396 562 0	615 396 562 0
4	Reaction bar ring ERDL1.5 / 2			615 396 551 5
4	Reaction bar ERDL4			615 595 259 0
4	Reaction bar ERDL6			615 396 297 0
4	Reaction bar ERAL6- 350/-480		615 396 302 0	



OPTIONAL ACCESSORIES

ITEM		PART NO. ERP	ERAL	ERDL
5	Long lever start (included with ERD5J)			615 396 584 0
6	2nd lever start ERAL-ERDL1.5 / 2		615 396 553 0	615 396 553 0
7	High resistance side handle ERP	615 397 012 0		
7	Side reaction handle ERAL-ERDL1.5 / ERDL2		615 396 554 0	615 396 554 0
8	Suspension ring ERAL1.5-2		615 571 063 0	
8	Suspension ring ERAL4		615 571 070 0	
8	Suspension ring ERAL6		615 571 064 0	
9	Reaction bar ring for ERAL2-80		615 396 622 0	
9	Reaction bar ring ERAL4-90/170 / ERAL6-135/170		615 396 227 0	
9	Reaction bar ring ERAL4-225		615 396 230 0	
10	Rotary connector 90° ER		615 396 299 0	615 396 299 0
•	Extension 200mm ERA(D)L1.5-2		615 396 865 0	615 396 865 0
•	Extension 200mm ERA(D)L 4		615 396 866 0	615 396 866 0
11	Mounting plate with telescopic spindle ERDL1.5 / ERDL2			615 396 547 0
Plastic cover				
12	Plastic cover ERP.S			615 573 074 0
12	Plastic cover ERP.L	615 573 075 0		
12	Plastic cover ERP.LT	615 573 076 0		
13	Plastic cover AH1 for ERAL1.5-15 / 25 / ERAL2-30 / 40	615 573 064 0		
13	Plastic cover AH2 for ERAL2-60		615 573 065 0	
13	Plastic cover AH3 for ERAL2-80		615 573 066 0	
14	Plastic cover AH4 for ERAL4-90 / 110 / 120		615 573 069 0	
14	Plastic cover AH5 for ERAL4-140 / 170 / ERAL6-135		615 573 070 0	
14	Plastic cover AH6 for ERAL4-225		615 573 071 0	
15	Plastic cover for ERDL1.5 / 2			615 573 067 0
Desoutter Tool Holster				
16	DTH TWIN (single) without rail		615 811 411 0	615 811 411 0
17	DTH TWIN rail kit with 2 Twin holders		615 811 412 5	615 811 412 5
18	DTH TWIN stand kit with base & 2 Twin holders		615 811 413 5	615 811 413 5
19	DTH90	615 812 119 0		



CABLE FOR ERP / ERAL /ERDL TOOLS	PART NO.
Nutrunner cable 5m (16ft)	615 917 492 0
Nutrunner cable 10m (32ft)	615 917 494 0
Nutrunner cable 15m (49.2ft)	615 917 495 0

HEAVY DUTY EXTENTION CABLE FOR ERP / ERAL /ERDL TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0



HEAVY DUTY CABLE FOR ERP / ERAL /ERDL TOOLS	PART NO.
Cable 2.5m (8.2ft)	615 917 570 0
Cable 5m (16ft)	615 917 571 0
Cable 10m (32ft)	615 917 572 0



SOCKET TRAY				
• Socket tray (sockets not included)				615 936 005 0
CABLE LENGTH:	1m (3.3ft)	5m (16ft)	10m (32.8ft)	15m (49.2ft)
• Cable for sockets tray	615 917 265 0	615 917 266 0	615 917 267 0	615 917 268 0

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Accessories



ERS / ERSA / ERSF / ELRT

OPTIONAL ACCESSORIES

ITEM		ERS.	ELRT
1	Long lever Kit	615 321 254 0	
2	Suspension yoke kit	615 791 080 0	
3	Reaction handle	615 397 016 0	
4	Plastic cover for ELRT		615 211 012 0
5	Pistol grip kit for ERS	615 390 059 0	
6	D53-25 Linear arm (tool clamp included) - (see page 148)	615 810 702 0	
6	D53-25X Linear arm, extended reach (tool clamp included) - (see page 148)	615 810 703 0	
7	D53-25S Folder arm (tool clamp included) - (see page 148)	615 810 708 0	
•	Torque tubes	see page 169	
8	Bit Tray	615 929 025 0	615 929 025 0
9	Spring suspension balancer	50522	50542
10	Tool Holster DTH90		615 812 119 0
11	ERS Module	615 936 537 0	
12	Sleeve drive socket	see page 297/298/299	

EXTENTION CABLE FOR ERS TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32ft)	615 917 224 0



HEAVY DUTY THIN CABLE FOR ELRT TOOLS	PART NO.
Cable 5m (16ft)	615 917 641 0

HEAVY DUTY EXTENTION CABLE FOR ELRT TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0

EME / EMEL

OPTIONAL ACCESSORIES



TRANSDUCER-HOLDER FOR EME TOOL	PART NO.
• 3/8" square drive EME35/EME38	615 396 426 0
• 1/2" square drive EME51/EME60.10	615 396 427 0
• 3/4" square drive EME60.20/EME60.30	615 396 428 0
• 3/4" square drive EME80.10/EME80.20	615 396 429 0
• 1" square drive EME80.30/40/50 / EME106	615 396 430 0

EME ADAPTATION ON EXISTING APPLICATION (SEPARATED CABLE TORQUE + MOTOR CABLE)	PART NO
• EME adaptation on old cable	615 917 539 0



CABLE FOR EME TOOLS - MULTICVIL & CVIL II	PART NO.
Cable 5m (16ft)	615 917 541 0
Cable 10m (32ft)	615 917 542 0
Cable 15m (49.2ft)	615 917 543 0

EXTENTION CABLE FOR EME TOOLS - MULTICVIL & CVIL II	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0

Protocol, Software

MODEL	PART NUMBER
Reporting to toolsnet open protocol 5 licences	615 927 577 0
Reporting to toolsnet open protocol 10 licences	615 927 578 0
Reporting to toolsnet open protocol 25 licences	615 927 579 0
Reporting to toolsnet open protocol 50 licences	615 927 580 0

MODEL	PART NUMBER
Open protocol 1 licence	615 927 830 0
Open protocol 5 licences	615 927 581 0
Open protocol 10 licences	615 927 582 0
Open protocol 25 licences	615 927 583 0
Open protocol 50 licences	615 927 584 0

MODEL	PART NUMBER
CVI PC2000 standard 1 install	615 927 522 0
CVI PC2000 standard 5 install	615 927 526 0
CVI PC2000 standard 25 install	615 927 537 0

MODEL	PART NUMBER
CVI PC2000 advanced 1 install	615 927 523 0
CVI PC2000 advanced 5 install	615 927 535 0
CVI PC2000 advanced 25 install	615 927 538 0

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CVIC Range Current controlled



Easy to integrate

Small size and smooth design for a simple installation.

Speed up the set up time by using the self learning process. Provides automatic set up for the tool to optimize your fastening process.

Multi torque capability

Replace multiple pneumatic tools with one electric tool per station.



Fastening quality guaranteed in all your products

Set up a batch count to ensure all bots are tightened with correct strategy.



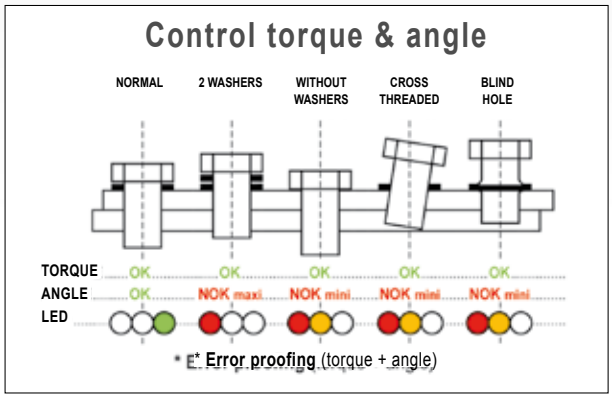
Batch NOK



Batch OK

Quality of tightening

Control torque and angle with multi phases strategies.



Advanced ergonomics

Maximize your operators' comfort with ergo stop and direct reporting led in the controller and on the tool.







Open to peripherals

Increase your assembly quality and process through barcode reader, socket tray or bit tray.
Control tightening order with our positioning system.



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Technical features

CVIC Range

MAIN FUNCTIONS	NORMAL		ECP HIGH TORQUE	
	L STANDARD	H ADVANCED	L STANDARD	H ADVANCED
Quick cycle with self-learning of the joint	✔	✔		
Number of cycles in the controller	1	15	1	15
Number of phases	15	15	15	15
Batch count (999 OK reports)	✔	✔	✔	✔
TIGHTENING RESULTS				
Torque + Angle + Date + Time + Report	5000 to 20000 according configuration			
TYPES OF PHASES IN A CYCLE				
Search Sequence	✔	✔		
Run Down speed	✔	✔	✔	✔
Final speed	✔	✔	✔	✔
Run reverse	✔	✔		
Action on NOK	✔	✔		
Prevailing torque monitoring	✔	✔		
FINAL SPEED STRATEGIES				
Torque control + Angle monitoring	✔	✔	✔	✔
Angle control + Torque monitoring	✔	✔	✔	✔
DISPLAY AND PROGRAMMING				
Display				
LCD display	✔	✔	✔	✔
Keyboard				
8 button keypad	✔	✔	✔	✔
Reports				
LEDs	6	6	6	6
PC Software Windows				
program cycles, collect, display and save results, run statistics, curves				
CVIPC2000 *: Connection 'point to point' (RS232)	✔	✔	✔	✔
Connection through ethernet	✔	✔	✔	✔
MAINTENANCE				
Access to all tool parameters (tool memory)	✔	✔	✔	✔
Autotest of the complete system	✔	✔	✔	✔
Spindle rotation test	✔	✔	✔	✔
Input/Output selection	✔	✔	✔	✔
Date of the last maintenance operation	✔	✔	✔	✔
Total and partial cycle counters	✔	✔	✔	✔
PERIPHERALS				
Input/Output	8/8	8/8	8/8	8/8
Serial port RS232 (PC transfer, Bar code, Report output)	✔	✔	✔	✔
Ethernet connection (CVIPC2000 / CVInet)	✔	✔	✔	✔
MODEL				
CONTROLLER for low torque tools	CVIC II L-2	CVIC II H-2		
CONTROLLER for the other tools	CVIC II L-4	CVIC II H-4	CVIC II L-4	CVIC II H-4
MAINS SUPPLY				
Single-phase, automatic switching 110V/230V	✔	✔	✔	✔

**All CVIPC2000 versions are compatible with CVICs*

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Controllers - CVIC

Electric current control



CVIC II-L2
CVIC II-H2



CVIC II-L4
CVIC II-H4

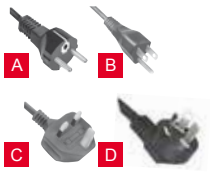




MODEL	PART NUMBER	TOOLS	CONSUMPTION (current)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
						WIDTH		HEIGHT		DEPTH			
			115V	230V	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
CVIC II CONTROLLERS													
CVIC II-L2	**615 932 676 0**	ECS / ECPL(T) / ECD5 / MC35-10 / ECA15	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5	11
CVIC II-H2	**615 932 677 0**	ECS / ECPL(T) / ECD5 / MC35-10 / ECA15	4A	2A	100 to 250 V	130	5.1	278	10.9	291	11.5	5	11
CVIC II-L4	**615 932 678 0**	Other tools	8A	4A	Single-phase	130	5.1	278	10.9	291	11.5	5	11
CVIC II-H4	**615 932 679 0**	Other tools	8A	4A	100 to 250 V	130	5.1	278	10.9	291	11.5	5	11

START-UP KIT to be ordered with the controller
Including : **Power cable and plug**

PLUG	DESCRIPTION	PART NO.
A	European	**615 917 201 0**
B	US	**615 917 203 0**
C	UK	**615 917 202 0**
D	Chinese	**615 917 206 0**





OPTIONAL ACCESSORIES

	PART NO.
• PC cable Length 2m (78.7")	**615 917 047 0**
• Printer cable Length 2m (78.7")	**615 917 011 0**
• 37 pin D-Sub female I/O adapteR	**615 919 003 0**
• BRDx2 (Backup Rescue Device)	**615 936 328 0**

Software

MODEL	PART NO.
CVIPC2000 for CVIS/CVIC 1 Install	**615 927 521 0**
CVIPC2000 for CVIS/CVIC 2 Install	**615 927 534 0**
CVINET WEB 1 controller	**615 927 736 0**
Open protocol 1 license	**615 927 830 0**

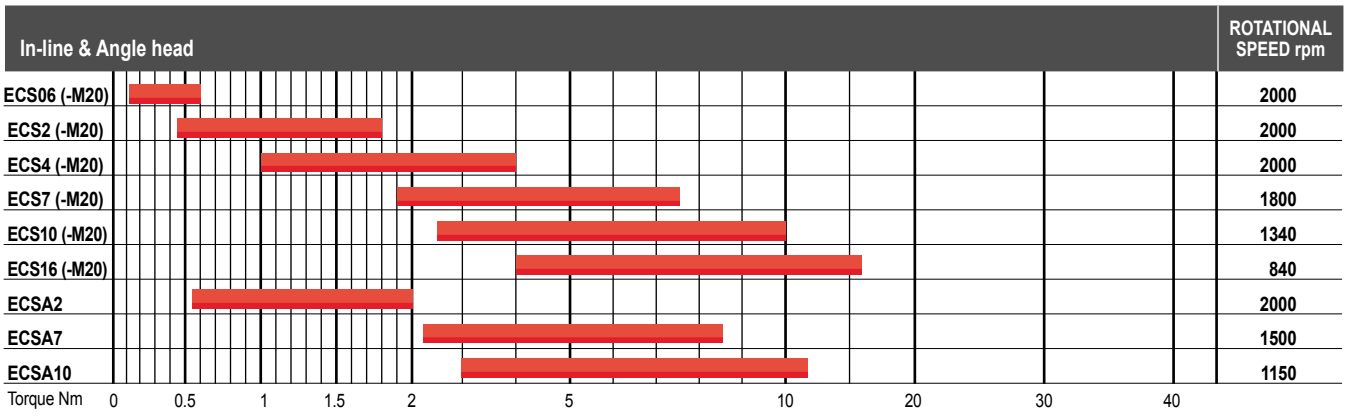
Fieldbus / Protocol

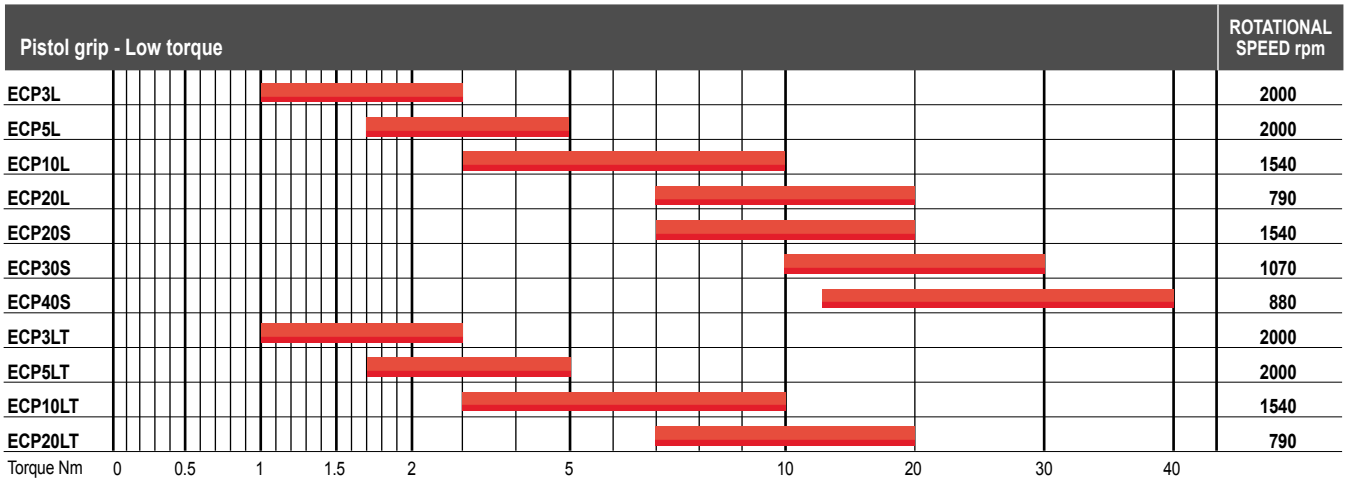
MODEL	PART NO.
Ethernet IP Module	**615 927 594 0**
Profibus DP Module	**615 927 595 0**
ProfiNet Module (1 port)	**615 927 596 0**
ProfiNet Module (2 ports)	**615 927 597 0**
CC-Link Module	**615 927 598 0**
Devicenet Module	**615 927 599 0**
MODBUS TCP Slave	**615 927 615 0**

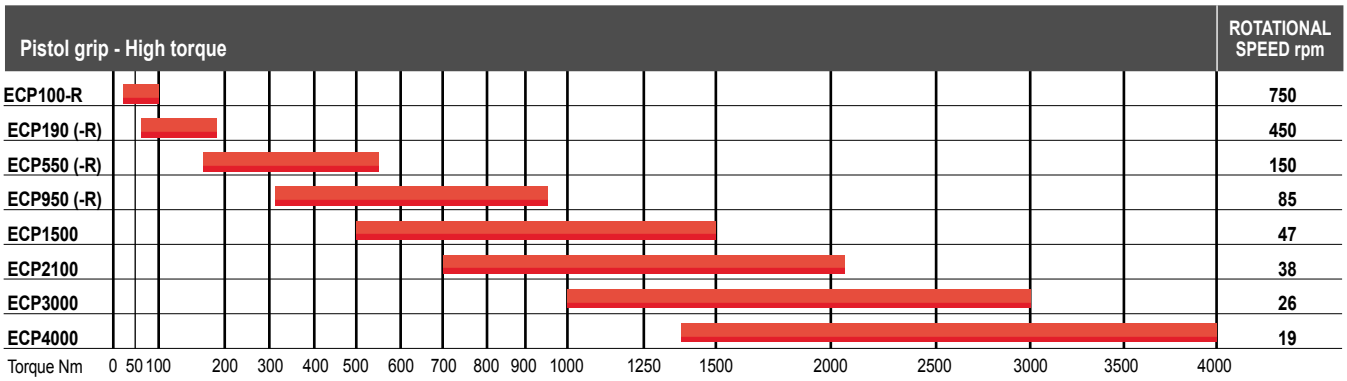
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Torque range

Performances of Portable electric nutrunners
ECS, ECSA and ECP Series



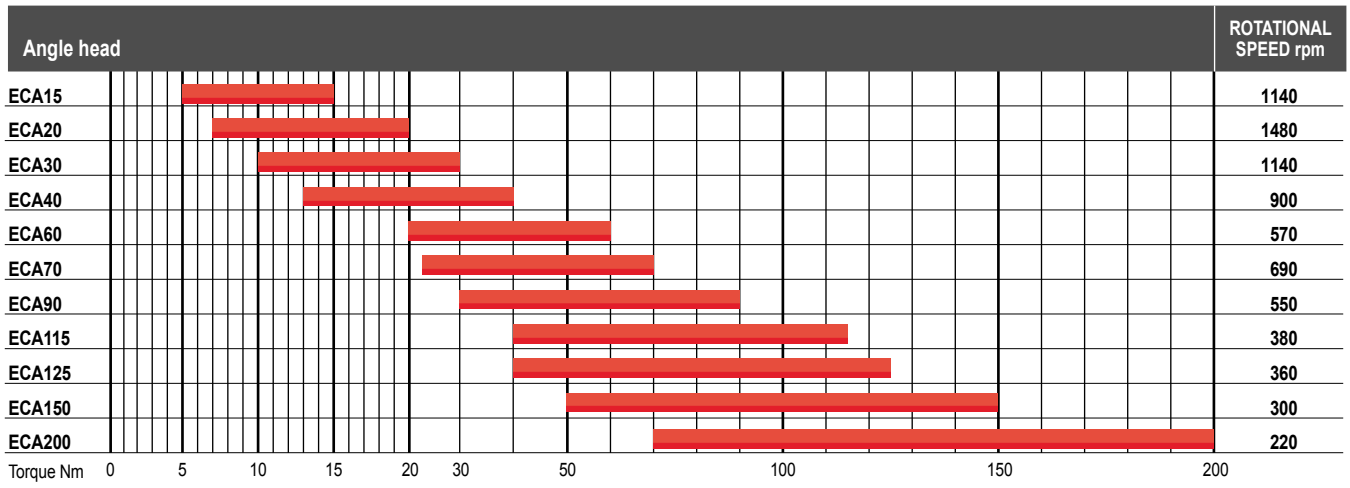


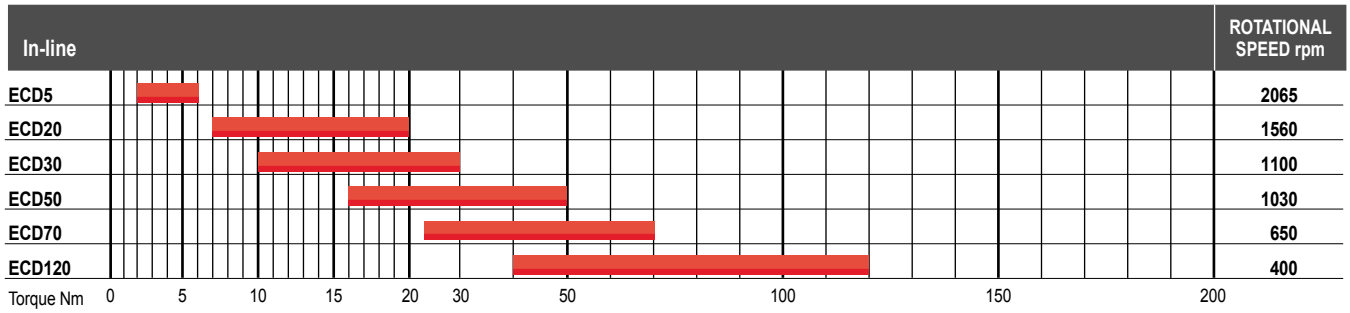


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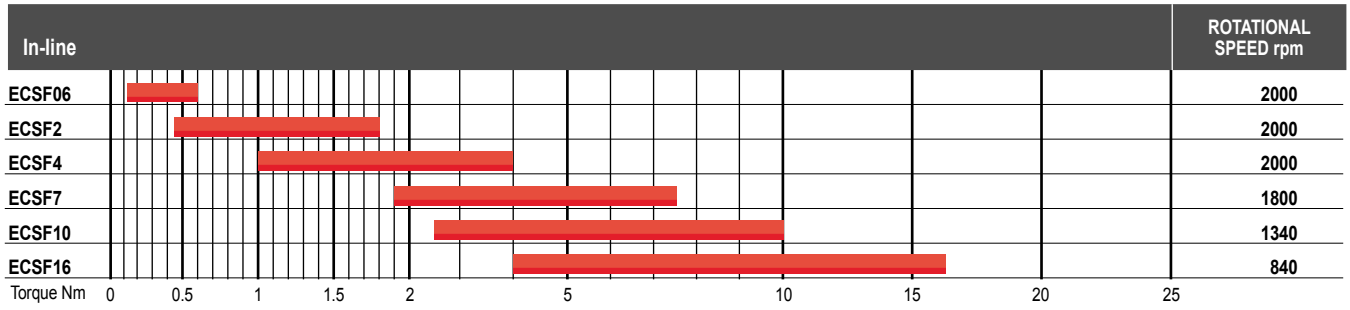
Torque range

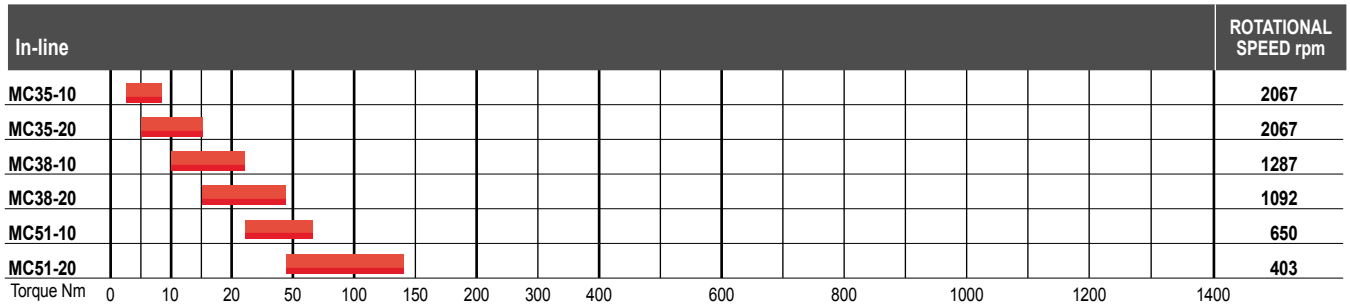
Performances of Portable electric nutrunners ECA and ECD Series





Performances of Fixtured electric spindles ECSF and MC Series





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Electric screwdrivers - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm

The ECS series offers outstanding torque accuracy and operator ergonomics, making it the ideal choice for assembly operations that require a high level of quality



Improve your joint visibility





Adapt your tool with accessories









Get the best tightening feedback directly on the tool



ACCESSORIES
see pages 84-85

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	MAX.	MIN.	MAX.					
				Nm	Nm	in.lb	in.lb	rpm	mm	in.	kg	lb.
ELECTRIC SCREWDRIVERS - IN-LINE												
A	ECS06	615 165 442 0	Hex. 1/4 F	0.12	0.6	1.1	5.3	2000	285	11.2	0.6	1.3
A	ECS2	615 165 443 0	Hex. 1/4 F	0.45	1.8	4	15.9	2000	285	11.2	0.6	1.3
A	ECS4	615 165 445 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
A	ECS7	615 165 446 0	Hex. 1/4 F	1.9	7.5	16.8	66.4	1800	285	11.2	0.7	1.5
A	ECS10	615 165 444 0	Hex. 1/4 F	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
A	ECS16	615 165 459 0	Hex. 1/4 F	4	16	35.4	141.6	840	285	11.2	0.7	1.5
ELECTRIC SCREWDRIVERS - IN-LINE												
B	ECS06-M20	615 165 454 0	Hex. 1/4 F	0.12	0.6	1.1	5.3	2000	285	11.2	0.6	1.3
B	ECS2-M20	615 165 455 0	Hex. 1/4 F	0.45	1.8	4	15.9	2000	285	11.2	0.6	1.3
B	ECS4-M20	615 165 456 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
B	ECS7-M20	615 165 457 0	Hex. 1/4 F	1.9	7.5	16.8	66.4	1800	285	11.2	0.7	1.5
B	ECS10-M20	615 165 458 0	Hex. 1/4 F	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
B	ECS16-M20	615 165 460 0	Hex. 1/4 F	4	16	35.4	141.6	840	285	11.2	0.7	1.5
ELECTRIC SCREWDRIVERS - ANGLE HEAD												
C	ECSA2	615 165 447 0	Hex. 1/4 F	0.55	2.2	4.9	19.5	2000	329	12.9	0.6	1.3
C	ECSA7	615 165 448 0	Hex. 1/4 F	2.2	8.5	19.5	75.2	1500	329	12.9	0.7	1.5
C	ECSA10	615 165 449 0	Hex. 1/4 F	3	11.5	26.6	101.8	1150	329	12.9	0.7	1.5

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Pistol grip electric nutrunners - CVIC

1 to 40 Nm (0.7 to 29.1 ft.lb) - 790 to 2000 rpm









ACCESSORIES
see pages 84-85

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
			in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg	lb.
A	ECP3L	615 165 199 0	Hex. 1/4F	1.0-3.0	0.7-2.2	2000	2000	196	7.7	1.0	2.2
A	ECP5L	615 165 200 0	Hex. 1/4F	1.7-5.0	1.3-3.7	2000	2000	196	7.7	1.0	2.2
A	ECP10L	615 165 201 0	Hex. 1/4F	3.0-10	2.2-7.4	1540	1540	196	7.7	1.1	2.4
A	ECP20L	615 165 202 0	Hex. 1/4F	7.0-20	5.2-15	790	790	196	7.7	1.1	2.4
B	ECP20S	615 165 203 0	Hex. 1/4F	7.0-20	5.2-15	1540	1540	221	8.7	1.2	2.6
B	ECP30S	615 165 204 0	Sq. 3/8	10-30	7.4-22	1070	1070	217	8.5	1.2	2.6
C	ECP40S	615 165 262 0	Sq. 3/8	13-40	9.6-29	880	880	263	10.4	2.1	4.5
D	ECP3LT	615 165 231 0	Hex. 1/4F	1.0-3	0.7-2.2	2000	2000	196	7.7	1.0	2.2
D	ECP5LT	615 165 232 0	Hex. 1/4F	1.7-5	1.3-3.7	2000	2000	196	7.7	1.0	2.2
D	ECP10LT	615 165 233 0	Hex. 1/4F	3.0-10	2.2-7.4	1540	1540	196	7.7	1.1	2.4
D	ECP20LT	615 165 234 0	Hex. 1/4F	7.0-20	5.2-15	790	790	196	7.7	1.1	2.4

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Electric high torque pistol grip - CVIC

30 to 4000 Nm (22 to 2950 ft.lb) - 19 to 750 rpm









For your quality-critical applications

Impact and impulse tools have been a production favourite for many years.
This current controlled swing bar tool allows you a 1st step to switch from pneumatic to DC tools, error-proof your high torque tightenings in medium duty applications, save on energy costs and reduce your carbon footprint.

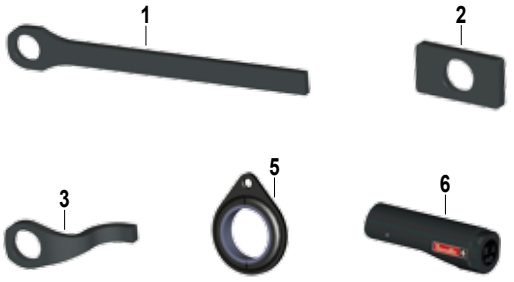
Offering all benefits of Electric Brushless Tools

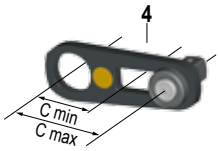
- Maintenance free motor
- Less than 70 dB(A)
- Environment friendly (no air, no oil)
- Repeatability and no need to re-torque
- One Tool = up to 15 different torque settings

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	MAX.	MIN.	MAX.					
			in.	Nm	Nm	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
NON REVERSIBLE												
A	ECP190	615 165 399 0	1/2	60	190	44	140	450	314	12.4	3.0	6.6
A	ECP550	615 165 400 0	3/4	175	550	129	405	150	351	13.8	3.7	8.1
A	ECP950	615 165 401 0	1	310	950	228	700	85	379	14.9	4.0	8.8
B	ECP1500	615 165 524 0	1	500	1500	368	1105	47	413	16.3	6.9	15.2
C	ECP2100	615 165 525 0	1-1/2	700	2100	516	1548	38	485	19.1	14.2	31.3
C	ECP3000	615 165 526 0	1-1/2	1000	3000	737	2212	26	485	19.1	14.2	31.3
C	ECP4000	615 165 527 0	1-1/2	1330	4000	980	2950	19	485	19.1	14.2	31.3
REVERSIBLE												
D	ECP100-R	615 165 523 0	1/2	30	100	22	73	750	328	12.9	3.4	7.5
D	ECP190-R	615 165 451 0	1/2	60	190	44	140	450	328	12.9	3.4	7.5
D	ECP550-R	615 165 452 0	3/4	175	550	129	405	150	365	14.4	4.3	9.5
D	ECP950-R	615 165 453 0	1	310	950	228	700	85	395	15.6	4.6	10.2

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Electric high torque pistol grip - CVIC





	615 596 014 0 mm (in.)	615 596 018 0 mm (in.)	615 596 111 0 mm (in.)
C min	76 (3)	73.5 (2.9)	80 (3.15)
C max	126 (4.96)	126.5 (4.98)	150 (5.9)



OPTIONAL ACCESSORIES	1	2	3	4	5	6
	STRAIGHT REACTION BAR	BLANK REACTION BAR	S TYPE REACTION BAR	SLIDING DRIVE REACTION BAR	SUSPENSION BAIL	PROTECTION SLEEVE
ECP100-R / ECP190 / ECP190-R	615 596 009 5	615 596 010 0	615 596 011 0	N/A	615 571 072 0	615 573 131 5
ECP550 / ECP550-R	615 596 012 5	615 596 013 0	615 596 015 0	615 596 014 0	615 571 072 0	615 573 131 5
ECP950 / ECP950-R	615 596 016 5	615 596 017 0	615 596 019 0	615 596 018 0	615 571 072 0	615 573 131 5
ECP1500	615 596 109 5	615 596 110 0	615 596 112 0	615 596 111 0	615 571 072 0	615 573 131 5
ECP2100 / ECP3000 / ECP4000	N/A	INCLUDED	N/A	N/A	N/A	615 573 131 5





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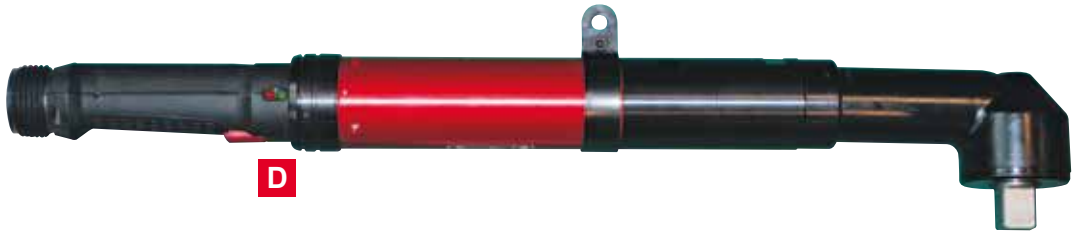
Angle head electric nutrunners - CVIC

5 to 200 Nm (3.7 to 147 ft.lb) - 200 to 1480 rpm

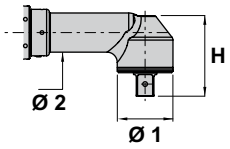








MODEL	H		Ø1		Ø2	
	mm	in.	mm	in.	mm	in.
ECA15	45.5	1.8	28	1.10	27	1.06
ECA20 - ECA30	45.5	1.8	28	1.10	27	1.06
ECA40	51.5	2.0	35	1.40	27	1.06
ECA60	57.5	2.3	40	1.60	30.5	1.20
ECA70- ECA90 - ECA115	66.0	2.6	45	1.77	37	1.46
ECA125 - ECA150	69.0	2.7	50	1.97	42	1.65
ECA200	86.0	3.4	60	2.36	42	1.65



ACCESSORIES
see pages 84-85

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
			in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg	lb.
A	ECA15	615 165 192 0	3/8	5-15	3.7-11	1140	1140	406	16.0	1.3	2.9
A	ECA20	615 165 100 0	3/8	7-20	5.2-15	1480	1480	431	16.9	1.7	3.7
A	ECA30	615 165 101 0	3/8	10-30	7.4-22	1140	1140	431	16.9	1.7	3.7
B	ECA40	615 165 102 0	3/8	13-40	9.6-29	900	900	441	17.4	1.8	4.0
B	ECA60	615 165 103 0	3/8	20-60	14.7-44	570	570	453	17.8	1.9	4.2
C	ECA70	615 165 104 0	1/2	23-70	16.9-52	690	690	538	21.2	3.3	7.3
C	ECA90	615 165 105 0	1/2	30-90	22.1-66	550	550	538	21.2	3.3	7.3
C	ECA115	615 165 106 0	1/2	39-115	28.7-85	380	380	538	21.2	3.3	7.3
C	ECA125	615 165 188 0	1/2	40-125	29.5-92	360	360	541	21.3	3.6	7.9
C	ECA150	615 165 189 0	1/2	50-150	36.8-111	300	300	541	21.3	3.6	7.9
D	ECA200	615 165 190 0	3/4	70-200	51.6-147	200	200	591	23.3	3.8	8.4

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In-line electric nutrunners - CVIC

2 to 120 Nm (1.5 to 88 ft.lb) - 400 to 2065 rpm



A



B



C

ACCESSORIES
see pages 84-85

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
			in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg	lb.
A	ECD5	615 165 068 0	Hex 1/4	2-6	1.5-4.4	2065	2065	346	13.6	1.0	2.4
B	ECD20	615 165 093 0	Hex 1/4	7-20	5.2-15	1560	1560	388	15.3	1.5	3.3
B	ECD30	615 165 094 0	Sq 3/8	10-30	7.4-22	1100	1100	380	15.0	1.5	3.3
C	ECD50	615 165 095 0	Sq 3/8	16-50	11.8-37	1030	1030	456	17.9	2.6	5.7
C	ECD70	615 165 096 0	Sq 1/2	23-70	16.9-52	650	650	461	18.1	2.6	5.7
C	ECD120	615 165 097 0	Sq 1/2	40-120	29.5-88	400	400	488	19.2	3.1	6.8

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Fixtured electric spindles - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm



A



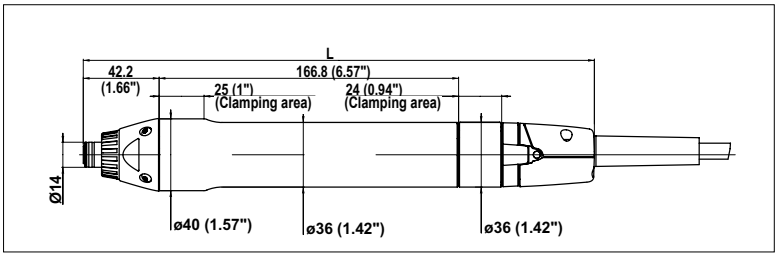
Offset head for application with close centers (minimum 19mm)



Automatically adjust the stroke for multispindle applications with spring loaded shafts



Mount your spindle easily on a support using the adapted flange



ACCESSORIES
see page 84-85

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE		ROTATIONAL SPEED AT	LENGTH		WEIGHT	
			in.	Nm	in.lb	rpm	mm	in.	kg	lb.
A	ECSF06	615 165 501 0	Hex. 1/4 F	0.12-0.6	1.1-5.3	2000	285	11.2	0.6	1.3
A	ECSF2	615 165 502 0	Hex. 1/4 F	0.45-1.8	4.0-15.9	2000	285	11.2	0.6	1.3
A	ECSF4	615 165 503 0	Hex. 1/4 F	1.0-4.0	8.8-35.4	2000	285	11.2	0.6	1.3
A	ECSF7	615 165 504 0	Hex. 1/4 F	1.9-7.5	16.8-66.4	1800	285	11.2	0.7	1.5
A	ECSF10	615 165 505 0	Hex. 1/4 F	2.5-10	22.1-88.5	1340	285	11.2	0.7	1.5
A	ECSF16	615 165 506 0	Hex. 1/4 F	4.0-16	35.4-141.6	840	285	11.2	0.7	1.5
A	*ECSF06-03	615 166 071 0	Hex. 1/4 F	0.12-0.6	1.1-5.3	2000	285	11.2	0.6	1.3
A	*ECSF2-03	615 166 072 0	Hex. 1/4 F	0.45-1.8	4.0-15.9	2000	285	11.2	0.6	1.3
A	*ECSF4-03	615 166 073 0	Hex. 1/4 F	1.0-4.0	8.8-35.4	2000	285	11.2	0.6	1.3
A	*ECSF7-03	615 166 074 0	Hex. 1/4 F	1.9-7.5	16.8-66.4	1800	285	11.2	0.7	1.5
A	*ECSF10-03	615 166 075 0	Hex. 1/4 F	2.5-10	22.1-88.5	1340	285	11.2	0.7	1.5
A	*ECSF16-03	615 166 076 0	Hex. 1/4 F	4.0-16	35.4-141.6	840	285	11.2	0.7	1.5

**Models with 30cm integrated cable instead of 4 meters*

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Fixtured electric spindles - CVIC

2.5 to 135 Nm (1.8 to 99 ft.lb) - 403 to 2067 rpm





ACCESSORIES
see page 84-85

For MC.tools with Offset heads, please contact your local Desoutter sales engineer for more information

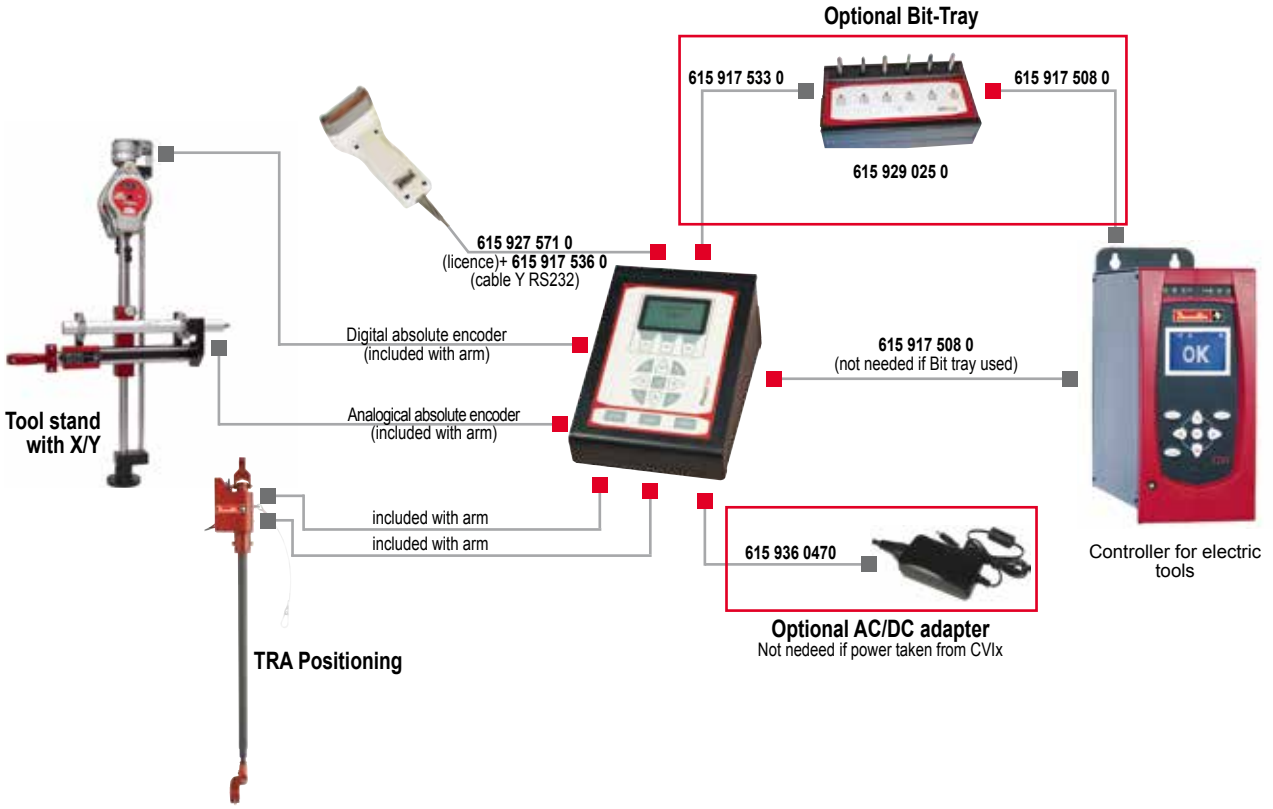
PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		TELESCOPIC		MIN CENTRE DISTANCE		LENGTH		WEIGHT	
			in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	mm	in.	mm	in.	kg	lb.
A	MC35-10	615 165 107 0	3/8	2.5-8	1.8-5.9	2067	2067	50	1.97	43.2	1.7	276	10.9	1.7	3.7
A	MC35-20	615 165 108 0	3/8	5-15	3.7-11	2067	2067	50	1.97	43.2	1.7	301	11.8	2.0	4.4
A	MC38-10	615 165 109 0	3/8	10-30	7.4-22	1287	1287	50	1.97	43.2	1.7	347	13.7	2.0	4.4
A	MC38-20	615 165 110 0	3/8	15-45	11-33	1092	1092	50	1.97	43.2	1.7	347	13.7	2.0	4.4
B	MC51-10	615 165 111 0	1/2	25-70	18-52	650	650	50	1.97	51.2	2.0	366	14.4	2.9	6.4
B	MC51-20	615 165 112 0	1/2	45-135	33-99	403	403	50	1.97	51.2	2.0	393	15.4	3.5	7.7

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Posco 500 Positioning system

Flexibility and control
Used in conjunction with encoders equipped arms stand or carbon arm, the system ensures that the tool is positioned at the right screw during the operation. An output signal will confirm to your PLC that the job is done.

Easy programming
The Posco 500 system lets you program a sequence of operations by "self learning mode" and ensures that the steps are completed in the right order and in the right conditions.



POSCO 500 BOX	PART NO.
Posco 500 controller desk	615 932 656 0
Posco 500 controller desk with I/O extension	615 932 658 0
Posco500 controller wall with I/O extension	615 932 659 0
AC/DC adapter 90-260V/24V 30W	615 936 047 0
I/O add-on board	615 929 026 0
OTHERS	**PART NO.**
Bit tray module	615 929 025 0
Mounted set	615 930 777 0

CABLE	PART NO.
Cable Posco 500 / I-O CVI	615 917 508 0
Cable Posco 500 / Bit-Tray	615 917 533 0
Cable Y RS232	615 917 536 0
Cable Posco 500 / Bit-Tray / CVIxII	615 917 508 0
I/O Adapter for CVIx II controllers	615 919 003 0
SOFTWARES & LICENCES	**PART NO.**
Barcode license	615 927 571 0
Advanced Programming Licence	615 927 572 0
PC Connection licence 1 User	615 927 573 0
PC Connection licence 5 Users	615 927 574 0
PC Connection licence 10 Users	615 927 575 0
FAS support licence	615 936 048 0

How to order?



Controller & Tool
CVI3 or CVIx2

+



Positioning Arm
D53 X/Y or TRA X/Y

+



POSCO 500
615 932 656 0
or
615 932 658 0
or
615 932 659 0

+

OPTIONS



AC / DC
Adapter
615 936 047 0

+



Accessories

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Accessories



ECS / ECP / ECA / ECD

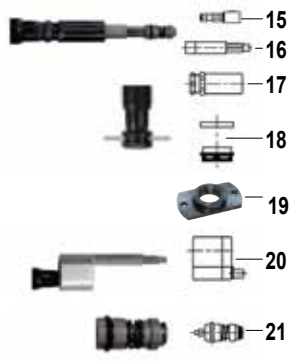
ACCESSORIES INCLUDED

ITEM		PART NO.
1	Side handle for ECP.L/S/LT versions	467033
2	Fixed suspension bail for ECP.LT	467003
2	Fixed suspension bail for ECS	205 049 537 3
3	Stationary suspension bail for ECA15/20/30/40/60 / ECD	615 571 056 0
3	Stationary suspension bail for ECA90/115/125/150/200	615 571 050 0
•	Socket ball retainer 3/8" for ECA15/20/30/40/60	615 770 028 0
4	Reaction bar for ECD20/30	615 396 191 0
4	Reaction bar for ECD50/70/120	615 595 259 0

OPTIONAL ACCESSORIES







ITEM		PART NO.
ECP		
5	High resistance Side handle for ECP L/S/LT versions	615 397 012 0
6	Rotary right angle tool connector	615 396 300 0
•	Suspension bail on a swivel for ECP L/S	615 396 121 0
7	Suspension bail on a swivel for ECP HT	615 571 072 0
•	Top cable length 4m for ECP.LT	615 917 420 0
8	Protection sleeve for ECP HT	615 573 131 5
9	Tool holster DTH90	615 812 119 0
ECA / ECD		
6	Rotary right angle tool connector	615 396 300 0
10	Suspension bail on a swivel for ECA20/30/40/60 / ECD5/20/30	615 396 228 0
10	Suspension bail on a swivel for ECA70/90/115/125/150/200 / ECD5	615 396 229 0
•	Reaction bar ring for ECD20/30	615 396 191 0
11	Reaction bar ring for ECA60	615 396 226 0
11	Reaction bar ring for ECA70/90/115/125/150	615 396 227 0
•	Reaction bar ring for ECA200	615 396 230 0
12	Long lever start for ECA / ECD	615 396 584 0
•	Tool clamp for ECD5	615 396 616 0
ECS / ECSA		
13	Reaction handle for ECS	615 397 016 0
3	Stationary suspension bail for ECSA	615 791 080 0
•	Tool clamp for ECS	615 396 616 0
14	Pistol grip kit for ECS	615 390 059 0
Spring Loaded Shafts and Bearings Support for ECS-M20/ECSF		
15	Bit Adaptor	103782
16	Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive	108342
17	Shaft Support and Nose Mount	108412
Nose Mounts for ECS-M20/ECSF		
18	Nose Mount	205 052 876 3
19	Flange	205 052 875 3
Offset Head and Spring Loaded Shaft for ECS-M20/ECSF		
16	Spring loaded shaft 25mm (1") strocke, 3/8" square drive	108342
20	Offset Head, Offset 30mm (1.18")	384993
Screwdriver Bit Adaptor for ECS/ECSA/ECS-M20/ECSF		
21	3/8" Square to 1/4" HexPower Adaptor	108322

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ECS / ECP / ECA / ECD

SOCKETS TRAY & BITS TRAY	PART NO.
• Socket tray (sockets not supplied)	615 936 005 0
• Bit tray (bits not included)	615 929 025 0

CABLE FOR SOCKET TRAY	PART NO.
Cable 1m (3.3ft)	615 917 241 0
Cable 5m (16ft)	615 917 242 0
Cable 10m (32.8ft)	615 917 244 0
Cable 15m (49.2ft)	615 917 245 0

CABLE FOR BIT TRAY	PART NO.
Extension cable 2m (6.4ft)	615 917 508 0



CABLE FOR ECP / ECA / ECD TOOLS	PART NO.
Nutrunner cable 3m (9.8ft)	615 917 461 0
Nutrunner 5m (16ft)	615 917 462 0
Nutrunner 10m (32.8ft)	615 917 464 0
Nutrunner 15m (49.2ft)	615 917 465 0

EXTENSION CABLE FOR ECS / ECP / ECA / ECD TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 222 0
Extension cable 10m (32.8ft)	615 917 224 0

MC

OPTIONAL ACCESSORIES



	PART NO.
• Motor/In-line connector assembly kit for MC35-10 to MC51-20	615 396 198 0

Transducer-holder from MC tool

• 3/8" square drive MC35/MC38	615 396 426 0
• 1/2" square drive MC51-10	615 396 427 0



CABLE FOR MC TOOLS	PART NO.
Tool cable 5m (16ft)	615 917 232 0
Tool cable 10m (32.8ft)	615 917 234 0
Tool cable 15m (49.2ft)	615 917 235 0

EXTENSION CABLE FOR MC TOOLS	PART NO.
Tol extension cable 5m (16ft)	615 917 222 0
Tool estension cable 10m (32.8ft)	615 917 224 0

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SLBN screwdrivers controllers

Advanced controller for SLBN screwdrivers

Flexible speed
- Speed adjustment

Protection of the parameters
- Setting locked by key



Fastening Strategies
- PreRun reverse
- Slow start
- Final fastening
- Post run reverse

Universal
- Compatible with all the SLBN range



Batch counting
- Incremental or decremental counting up to 99



INPUTS AND OUTPUTS FOR PLC COMMUNICATION

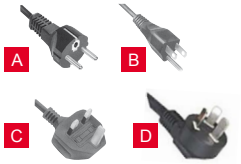
Inputs :
- Remote Start
- Remote Reverse
- Enable tool A
- Enable tool B
- Enable Reverse
- Reset Batch
- NOK Acknowledgment
- Psets 1 to 5
- PreRun Reverse enable

Outputs :
- OK
- NOK
- OK Batch
- Tool running forward
- Tool running reverse
- 24/12 Vdc

START-UP KIT to be ordered with the controller

Including : **Power cable and plug**

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0




A

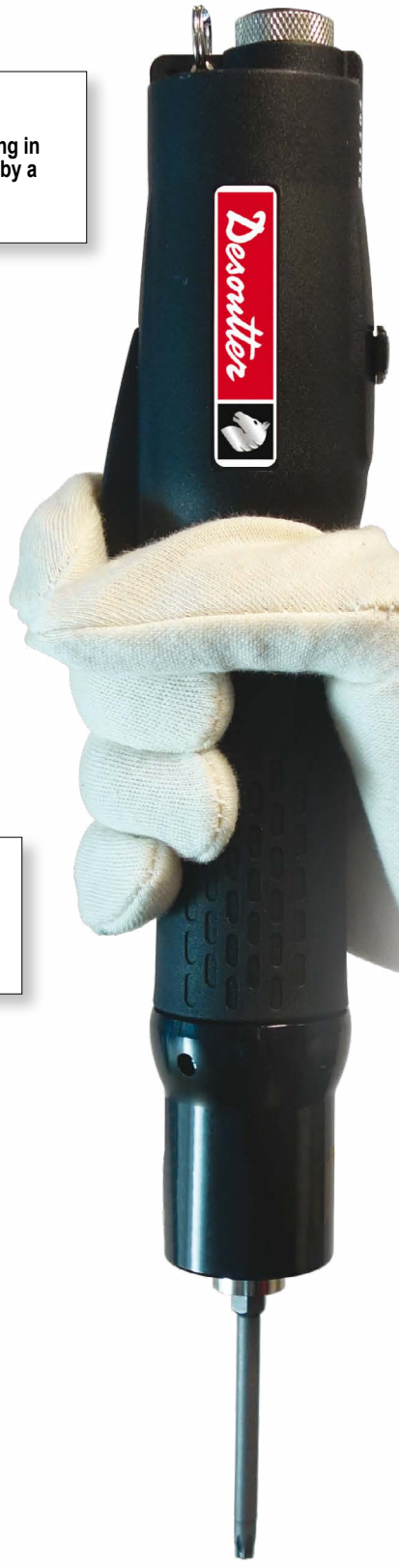

B


C

PIC REF	MODEL	PART NUMBER	DIMENSIONS						WEIGHT		VOLTAGE VAC	COMPATIBLE TOOLS
			WIDTH		HEIGHT		DEPTH					
			mm	in	mm	in	mm	in	kg	lb.		
A	ESP1	615 932 635 0	160	6.3	75	2.95	55	2.17	0.50	1.1	100-240	SLBN003/010/012/020
B	ESP1-HT	615 932 637 0	213	8.4	131	5.20	65	2.60	1.80	3.9	100-240	SLBN030/050
B	ESP1-HT PLUS	615 932 707 0	213	8.4	131	5.20	65	2.60	1.63	3.6	100-240	SLBN90/120
C	ESP2-A	615 932 708 0	135	5.3	285	11.2	105	4.1	2.8	4.4	100-240	SLBN003-SLBN120

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Low Voltage Screwdriver with clutch shut off - SLBN



Flexibility

- Installation by clamping in the top or in the front by a torque fixing ring

ESD Certification

- Dedicated version for Electrostatic discharge component protection

Productivity

- Speed up to 2000 rpm
- Maintenance free thanks to brusless motor

Ergonomy

- Soft Rubber grip
- Low noise level < 70dB (A)

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Standard Version - SLBN

0.02 to 12 Nm (0.18 to 106.2 in.lb) - 160 to 2000 rpm



A



B



C



D



E



F

MODEL	LENGHT		WEIGHT	
	mm	in.	kg	lb.
SLBN001	174	6.8	0.17	0.37
SLBN003/010	182	7.2	0.38	0.34
SLBN012/020	245	9.6	0.58	1.28
SLBN030/050	283	11.1	0.80	1.76
SLBN090/120	301	11.8	1.25	2.76

ACCESSORIES
see page 93

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED		TORQUE RANGE		TORQUE RECOMMENDED		VOLTAGE VDC	CONTROLLER
			in	Hi rpm	Lo rpm	Nm	in.lb	Nm	in.lb		
LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
A	SLBN001-L1000-SWS	615 165 873 0	whing shank	1000	700	0.02-0.14	0.18-1.32	0.10	0.91	15	ESP1.LT included
A	SLBN003-L230-S4Q	615 165 922 0	1/4	230	160	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN003-L1000-S4Q	615 165 923 0	1/4	1000	750	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN010-L1000-S4Q	615 165 955 0	1/4	1000	750	0.1-1	0.88-8.8	0.70	6.16	25	ESP1
B	SLBN012-L1000-S4Q	615 165 924 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN012-L2000-S4Q	615 165 925 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN020-L1000-S4Q	615 165 926 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
C	SLBN030-L1000-S4Q	615 165 927 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN030-L2000-S4Q	615 165 928 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN050-L1000-S4Q	615 165 929 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-L800-S4Q	615 165 947 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-L550-S4Q	615 165 948 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS
PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF											
E	SLBN012-A1000-S4Q	615 165 934 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN012-A2000-S4Q	615 165 935 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN020-A1000-S4Q	615 165 936 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
F	SLBN030-A1000-S4Q	615 165 937 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN030-A2000-S4Q	615 165 938 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN050-A1000-S4Q	615 165 939 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-A800-S4Q	615 165 951 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-A550-S4Q	615 165 952 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS

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ESP C / ESP CA

Advanced controller SLC range

- Auto stop after elapsed time and auto reverse
- OK/NOK with rehit protection
- I/O for integration with PLC for multiple functions

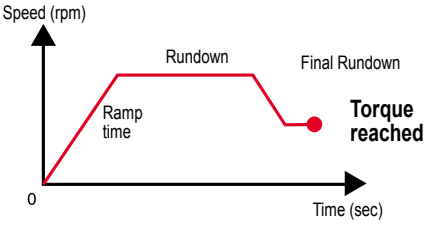




A

- Easy to use
- Flexible keypad
- Multi languages

- Speed control at all steps of operation: start, rundown and final phase



- Replace several tools by one
- Multi torque strategy



- Automatic sequence
- Up to 8 programs

- User friendly interface
- Avoid time and Energy lost in programming

- POKE YOKE & Fastening Assurance System

B

- User friendly interface
- Avoid time and Energy lost in programming

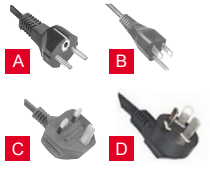


- USB key
- Results saving
- Statistics

- High Torque Phase (HLT)
- For all Self Tapping/ Cutting applications

START-UP KIT to be ordered with the controller Including: **Power cable and plug**

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



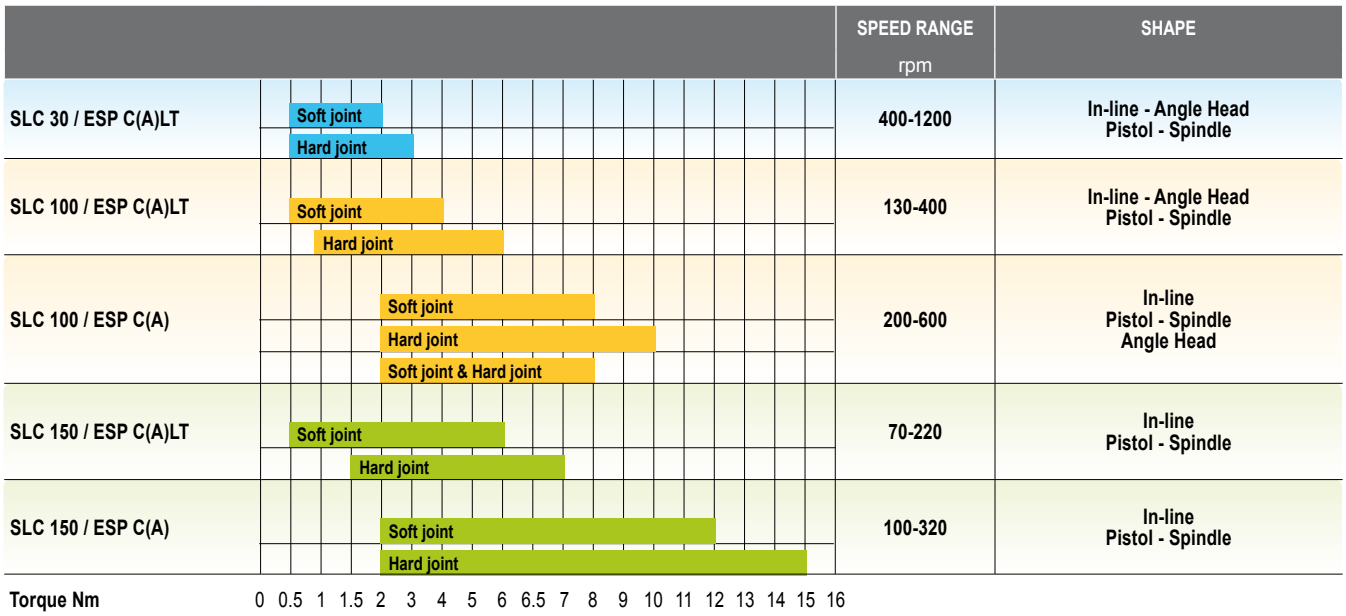
PIC REF	MODEL	PART NUMBER	TORQUE RANGE		SUPPLY VOLTAGE	DIMENSIONS						WEIGHT	
						WIDTH		HEIGHT		DEPTH			
			Nm	in.lb		mm	in.	mm	in.	mm	in.	kg	lb
A	ESP C 220V	615 165 480 0	0.5-15	4.4-132.7	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C 110V	615 165 484 0	0.5-15	4.4-132.7	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 220V	615 165 481 0	0.5-7.0	4.4-61.9	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 110V	615 165 485 0	0.5-7.0	4.4-61.9	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
B	ESP CA 220V	615 165 482 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 220V	615 165 483 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA 110V	615 165 486 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 110V	615 165 487 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5

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High power screwdrivers - SLC

Torque Range

Performance of Electric Screwdrivers - Series SLC



In-line and Angle head screwdrivers - SLC

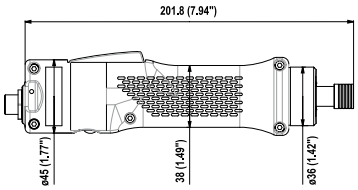
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm

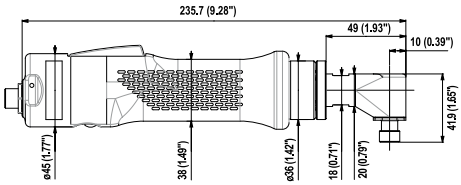


A



B





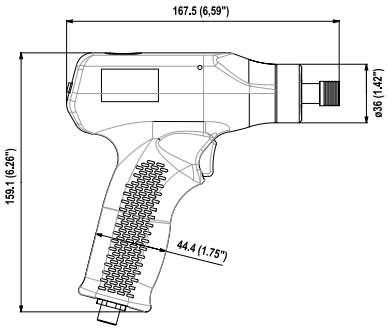
ACCESSORIES
see page 93

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE SOFT	TORQUE RANGE SOFT	TORQUE RANGE HARD	TORQUE RANGE HARD	WEIGHT		CONTROLLER
			in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb	
IN-LINE - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
A	SLC030-L1200-C4Q	615 165 500 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.5	1.1	ESP C(A) LT
A	SLC100-L600-C4Q	615 165 466 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.5	1.1	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-L320-C4Q	615 165 467 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.5	1.1	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.5	1.1	ESP C(A)
ANGLE HEAD - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
B	SLC030-L1200-C90A4H	615 165 478 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.7	1.5	ESP C(A) LT
B	SLC100-L600-C90A4H	615 165 479 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.7	1.5	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.7	1.5	ESP C(A)

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Pistol grip screwdrivers - SLC

0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



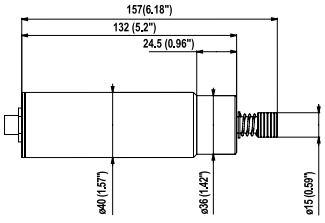




PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE SOFT	TORQUE RANGE SOFT	TORQUE RANGE HARD	TORQUE RANGE HARD	WEIGHT		CONTROLLER
			in.	rpm	Nm	in.lb	Nm	in.lb	kg	lb	
PISTOL GRIP - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
A	SLC030-P1200-C4Q	615 165 488 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.6	1.3	ESP C(A) LT
A	SLC100-P600-C4Q	615 165 462 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.6	1.3	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
A	SLC150-P320-C4Q	615 165 463 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.6	1.3	ESP C(A)
PISTOL GRIP WITH TOP CONNECTOR - CURRENT CONTROL - SHUT OFF											
B	SLC030-T1200-C4Q	615 165 489 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.6	1.3	ESP C(A) LT
B	SLC100-T600-C4Q	615 165 464 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.6	1.3	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
B	SLC150-T320-C4Q	615 165 465 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.6	1.3	ESP C(A)

SLC - Automation - Remote start

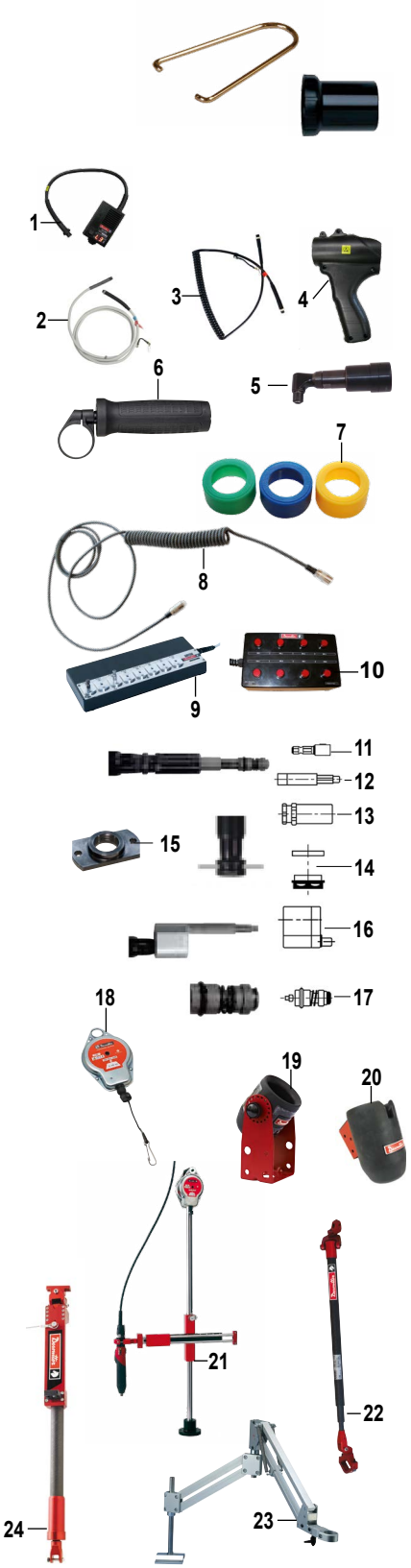
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm





PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE SOFT	TORQUE RANGE SOFT	TORQUE RANGE HARD	TORQUE RANGE HARD	WEIGHT		CONTROLLER
									kg	lb	
AUTOMATION - REMOTE START											
A	SLC030-F1200-C4Q	615 165 490 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.5	1.1	ESP C(A) LT
A	SLC100-F600-C4Q	615 165 468 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.5	1.1	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-F320-C4Q	615 165 469 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.5	1.1	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.5	1.1	ESP C(A)

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SLBN / SLC

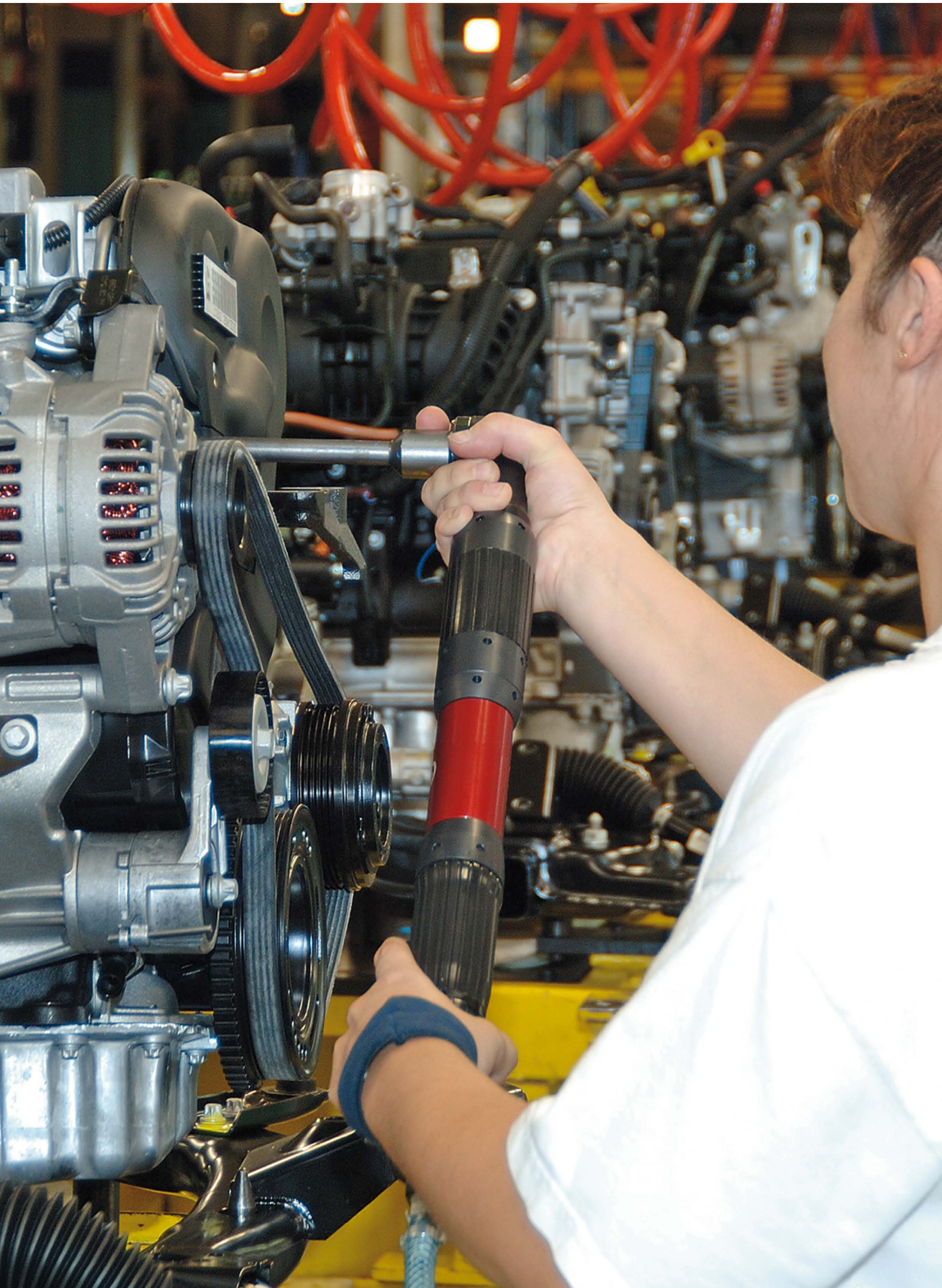
ACCESSORIES INCLUDED

		SLBN	SLC
•	Suspension bail		615 360 222 0
•	Torque fixing ring for SLB003	615 225 053 0	
•	Torque fixing ring for SLB012/020	615 548 218 0	
•	Torque fixing ring for SLB030/050	615 548 219 0	
•	Tool / Controller cable L = 2.5m (8.2ft)	-	615 360 223 0
•	Cable L = 1.83m (6ft)	615 397 416 0	

OPTIONAL ACCESSORIES

ITEM		SLBN	SLC
SLBN Tools			
1	Control Box	615 932 709 0	
2	Shielded cable 3m for ESP2-A	615 917 721 0	
3	Spiral cable 3m (9.9 ft)	615 360 838 0	
4	Pistol grip (Trigger) for SLB030/050	615 397 918 0	
4	Pistol grip (Push) for SLB030/050	615 397 919 0	
4	Pistol grip (Push) for SLB012/020	77562	
•	Cable, 10m (32.8 ft)	615 360 379 0	
•	Wall fixing plate for ESP1-HT	615 571 085 5	
•	Clamp ring for SLB012/020	615 399 057 0	
•	Clamp ring for SLB030/050	615 397 815 0	
•	Adaptor M20 SLB012/020	615 548 151 5	
•	Adaptor M20 SLB 030/050	615 548 152 5	
5	Angle head for SLB012/020	615 398 033 0	
5	Angle head for SLB030/050	615 398 034 0	
SLC Tools			
6	Side Handle		615 397 016 0
7	Color ring (3)		615 397 008 5
•	Cable extension L = 2m (6.6ft)		615 917 593 0
8	Spiral cable L = 2m (6.6ft)		615 917 594 0
•	M20 adaptor		615 567 132 0
9	Bit tray		615 936 068 0
10	Switch box		615 936 069 0
Spring Loaded Shafts and Bearings Support			
11	Bit Adaptor		103782
12	Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive		108342
13	Shaft Support and Nose Mount		108412
Nose Mounts for SLC-M20			
14	Nose Mount		205 052 876 3
15	Flange		205 052 875 3
Offset Head and Spring Loaded Shaft			
12	Spring loaded shaft 25mm (1") strocke, 3/8" square drive		108342
16	Offset Head, Offset 30mm (1.18")		384993
Screwdriver Bit Adaptor			
17	3/8" Square to 1/4" HexPower Adaptor		108322
Balancers and Holster			
18	Spring Suspension Balancer		50522
19	Tool holster DTH-42		107892
20	Tool holster DTH90		615 812 119 0
Ergonomic accessories			
21	D53 - Linear & Folder arms		see page 153
22	TRA - Telescopic arms		see page 165
23	D57, D58 - Balancing arms		see page 170
24	Torque tube		see page 169

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Pneumatic fastening tools

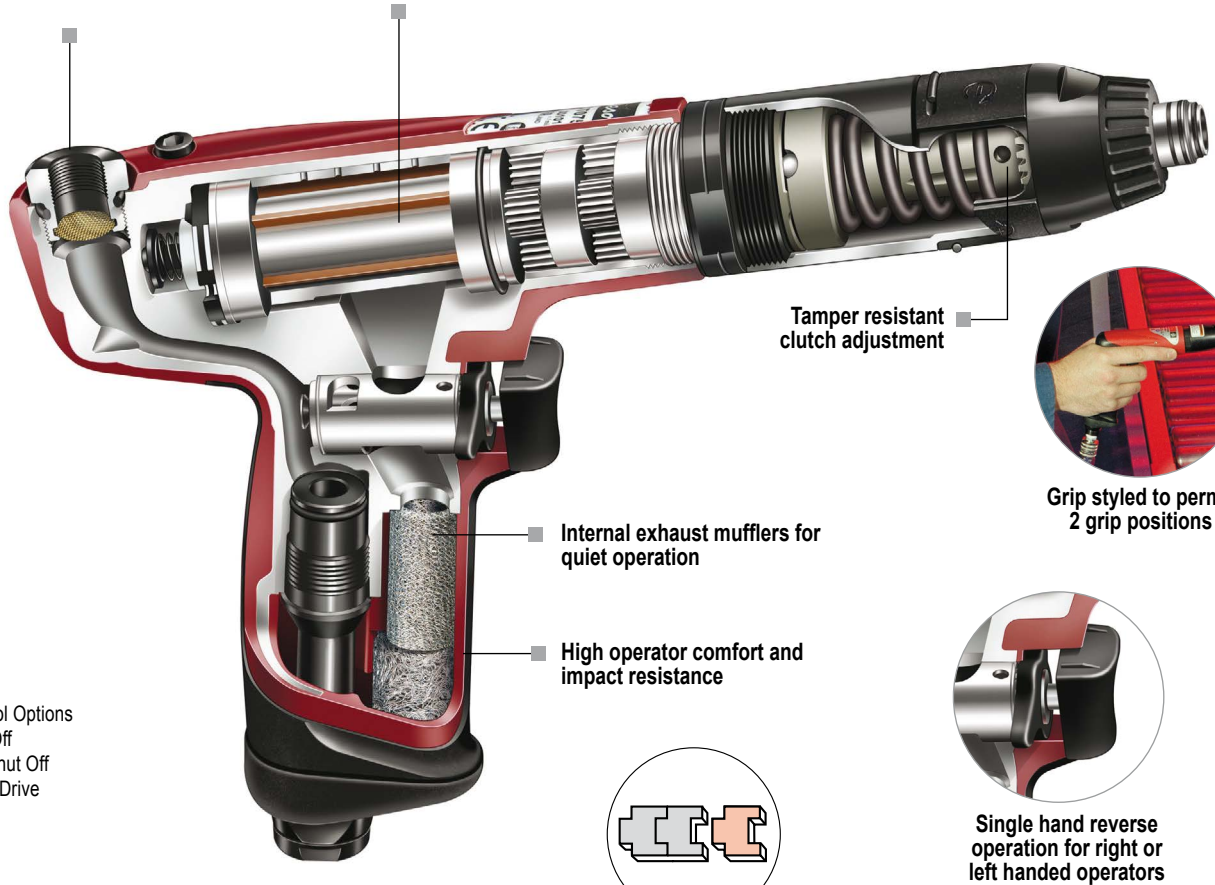
Shut Off, Non Shut Off, Direct Drive, Automatic Reverse



T shape grip for better balance to enhance operator comfort

Powerful, efficient, Dryline™ motor

CLUTCH AND MOTOR PROLONGING TOOL LIFE



Grip styled to permit 2 grip positions

Single hand reverse operation for right or left handed operators

3 Control Options
- Shut Off
- Non Shut Off
- Direct Drive

Modularity

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Tool selection

CRITERIA

- Type of Fastener/Component
- Joint integrity
- Torque Required
- Tool Orientation and Operator Reference
- Productivity
- Access

TYPE OF FASTENER/COMPONENT

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Machine Screw/Nut	Shut Off/Impulse/Non Shut Off
Thread Rolling/Forming	Shut Off/HLT/Impulse/Direct Drive
Self Tapping	Non Shut Off/HLT/Direct Drive
Self Tapping in Plastic/ Thin Materials	Shut Off/HLT
Self Drilling	Non Shut Off/HLT/Direct Drive
Wood Screws	Non Shut Off/Direct Drive

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Screws with Adhesive	HLT/Non Shut Off/Impulse
Self Lock Nuts	HLT/Non Shut Off/Impulse
Misaligned Holes	HLT
Variable Size Holes	HLT
Fragile Components	HLT/Low Voltage Screwdrivers





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FASTENER TORQUE VALUES

MACHINE SCREWS						THREAD FORMING/ ROLLING SCREWS
ISO	4.6	5.8	8.8	10.9	12.9	8.8
THREAD SIZE	RECOMMENDED TORQUE (NM)					RECOMMENDED TORQUE (NM)
M1.6	0.07	0.12	0.19	–	–	–
M2	0.15	0.24	0.38	–	–	0.5
M2.2	0.19	0.31	0.51	–	–	–
M2.5	0.28	0.48	0.77	–	–	–
M3	0.51	0.85	1.4	1.9	2.3	1.4
M3.5	0.80	1.34	2.2	3.0	3.6	–
M4	1.20	2.00	3.2	4.5	5.4	3.2
M5	2.40	4.00	6.4	9.0	10.7	6.5
M6	4.10	6.80	10.9	15.3	18.3	11
M8	9.80	16.3	26.1	36.8	44.1	26
M10	19.3	32.2	51.5	72	86.9	52
M12	33.6	56.0	90	126	151	91
M14	53.0	89.0	142	200	239	
M16	82.0	136	218	307	368	
M18	114	190	304	428	513	
M20	160	266	426	598	718	
M22	215	358	573	806	967	

SELF TAPPING/DRILLING SCREWS	
THREAD SIZE	RECOMMENDED TORQUE (NM)
ST2.2 (B2)	0.2
ST2.9 (B4)	1.0
ST3.5 (B6)	1.8
ST4.2 (B8)	2.9
ST4.8 (B10)	4.2
ST5.5 (B12)	6.7
ST6.3 (B14)	9.1

CONVERSION FACTORS

Nm x 141.6 = oz in
Nm x 8.851 = in lb
Nm x 0.73756 = ft lb
Nm x 0.102 = kgf m/kpm
Nm x 10.2 = kgf cm

Torque figures should be used as a guide only
Table assumes fasteners are new, lightly lubricated and of a standard finish
For lock nuts with a nylon insert, +10 %
Torque values are recommended values for a working pressure of 6,3 bar (90 PSIG)

For non metric threads please use the following data as a guide.

Recommended Maximum Torque Values – UNC Thread

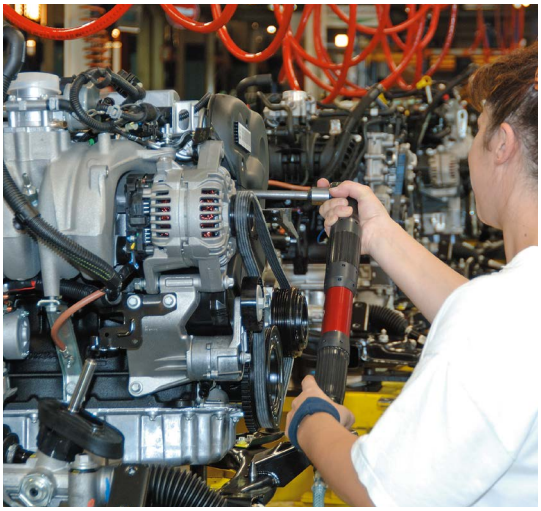
THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
in.	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	5.43	4	10.3	7.6	11	8.2
5/16	11.2	8.3	21.3	15.7	23	16.9
3/8	19.9	14.7	37.9	27.9	40	30.2
7/16	31.9	23.5	60.7	44.8	65	48.31
1/2	48.8	36	92.7	68.4	100	73.8
9/16	70.4	51.9	134	98.8	144	106
5/8	97.4	71.8	185	136.4	200	147.5
3/4	178	131.3	338	249.3	364	268.5
7/8	279	205.8	530	391	572	422
1	418	308.3	795	586	858	633
1 1/8	593	437.4	1126	830	1216	897
1 1/4	837	617.3	1591	1173	1717	1266
1 3/8	1096	808.4	2083	1536	2248	1658
1 1/2	1456	1074	2767	2041	2987	2203

Recommended Maximum Torque Values – UNF Threads

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
in.	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	6.3	4.6	11.9	8.8	12.9	9.5
5/16	12.5	9.2	23.8	17.5	25.7	18.9
3/8	22.7	16.7	43.2	31.9	46.6	34.4
7/16	35.9	26.5	68.2	50.3	73.6	54.3
1/2	55.4	40.9	105	77.4	114	84
9/16	79	58.3	150	111	162	119
5/8	111	81.9	210	155	227	167
3/4	195	144	370	273	399	294
7/8	309	228	587	433	634	468
1	459	339	873	644	942	695
1 1/8	667	492	1267	934	1368	1009
1 1/4	925	682	1757	1296	1896	1398
1 3/8	1252	923	2378	1754	2567	1893
1 1/2	1642	1211	3119	2300	3367	2482

Quality P = approximately ISO 4.6 Quality S/T = approximately ISO 8.8 Quality S = ANSI Grade 5

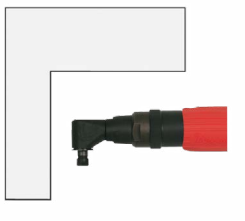




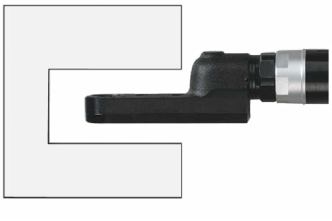
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Productivity and Ergonomics

ACCESS



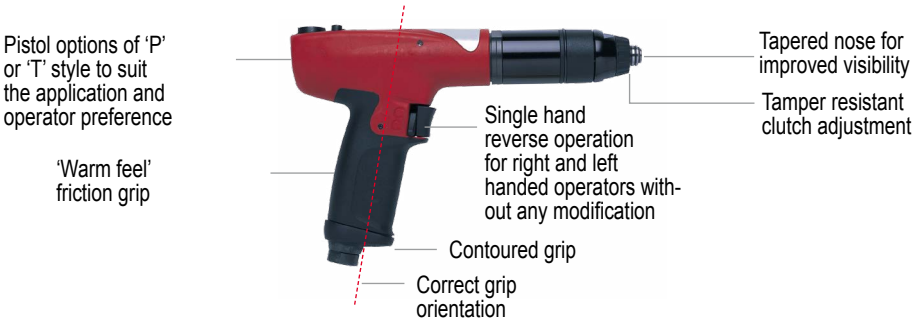
90° Angle Heads

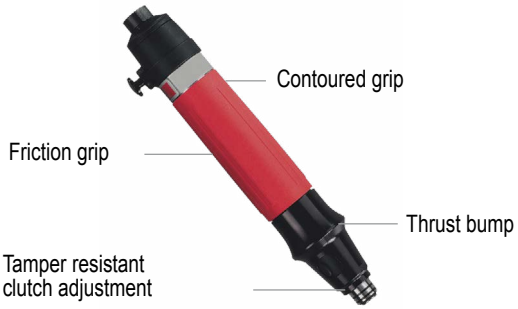


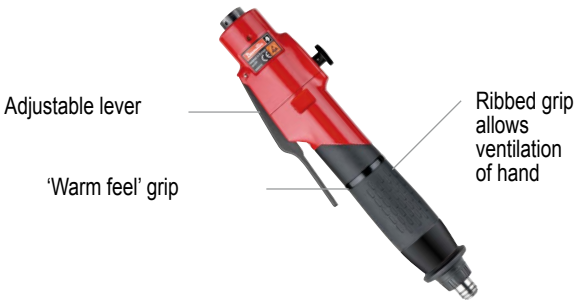
Crowfoot
Open Ended Wrenches

ERGONOMIC BENEFITS

- Lightweight
- Short Length
- Light Start Load

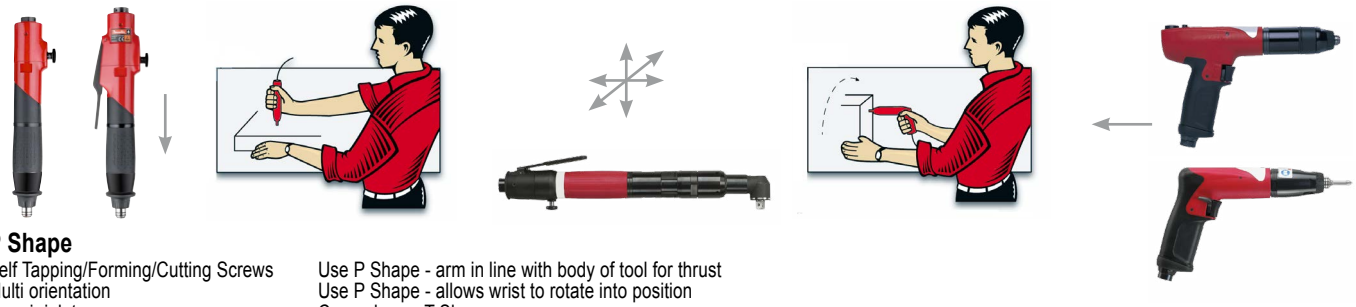






For low vibration exposure and high productivity, select shut off tools where possible

TOOL ORIENTATION AND OPERATOR PREFERENCE



P Shape

Self Tapping/Forming/Cutting Screws — Use P Shape - arm in line with body of tool for thrust
Multi orientation — Use P Shape - allows wrist to rotate into position
Top air inlet — Can only use T Shape
Requires balanced tool — Use T Shape - especially with screwfeeder

Button Reverse versus Rotary Reverse

Rapid Reverse Required — Use button reverse
Thread Chasing Cleaning — Use button reverse (auto reverse for blind holes)
Rivnuts/Threaded Fasteners — Use auto reverse tools
Long Periods in Reverse — Use rotary reverse

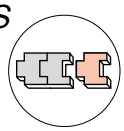
Push Start versus Lever Start

Fast Cycle Rate — Use push start
Single Hand Operation Required — Use push start
Need to Align/Position Components First — Use lever start or push + trigger start (SBP/SDP only)

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Modularity

SD SERIES





Push Start
Control Button **465013**
Rotary **465003**



Lever Start
Control Button **471223**
Rotary **471213**
Lock-off Lever
Open Ended
wrench **465063**



Lever Start
Auto Reverse
465053



Automation
1 Way Push Start
465073
2 Way Remote Start
465083



Hand Held Body
465123
includes motor



Plain Body
465133
includes motor



Pistol Grip 'P'
473993
+ 465143



Pistol Grip 'T'
205 047 916 3
+ 465143



320 rpm
Gearbox
465163



510 rpm
Gearbox
465173



820 rpm
Gearbox
465183



1100 rpm
Gearbox
465193



1470 rpm
Gearbox
465203



2200 rpm
Gearbox
465213



3500 rpm
Gearbox
465223



1/4" Output
465513



Cover
474163



Left hand
clutch
205 053 041 3



Shut Off Clutch
465293, 465283
465273, 465263



Non Shut Off
Clutch
465373, 465363
465353



Shut Off Clutch
465313
465303
205 047 525 3
205 047 524 3



Non Shut
Off Clutch
465393
465383
205 047 527 3
205 047 526 3



1/4" Output
465513



1/4" Output
Double Ended
465523



Clutch
Cover
465453



Clutch
Cover
465463



Clutch
Cover
465433



Clutch
Cover
465443



Angle Head
1/4" Square
Drive
475163



Angle Head
1/4" Square
Drive
465603



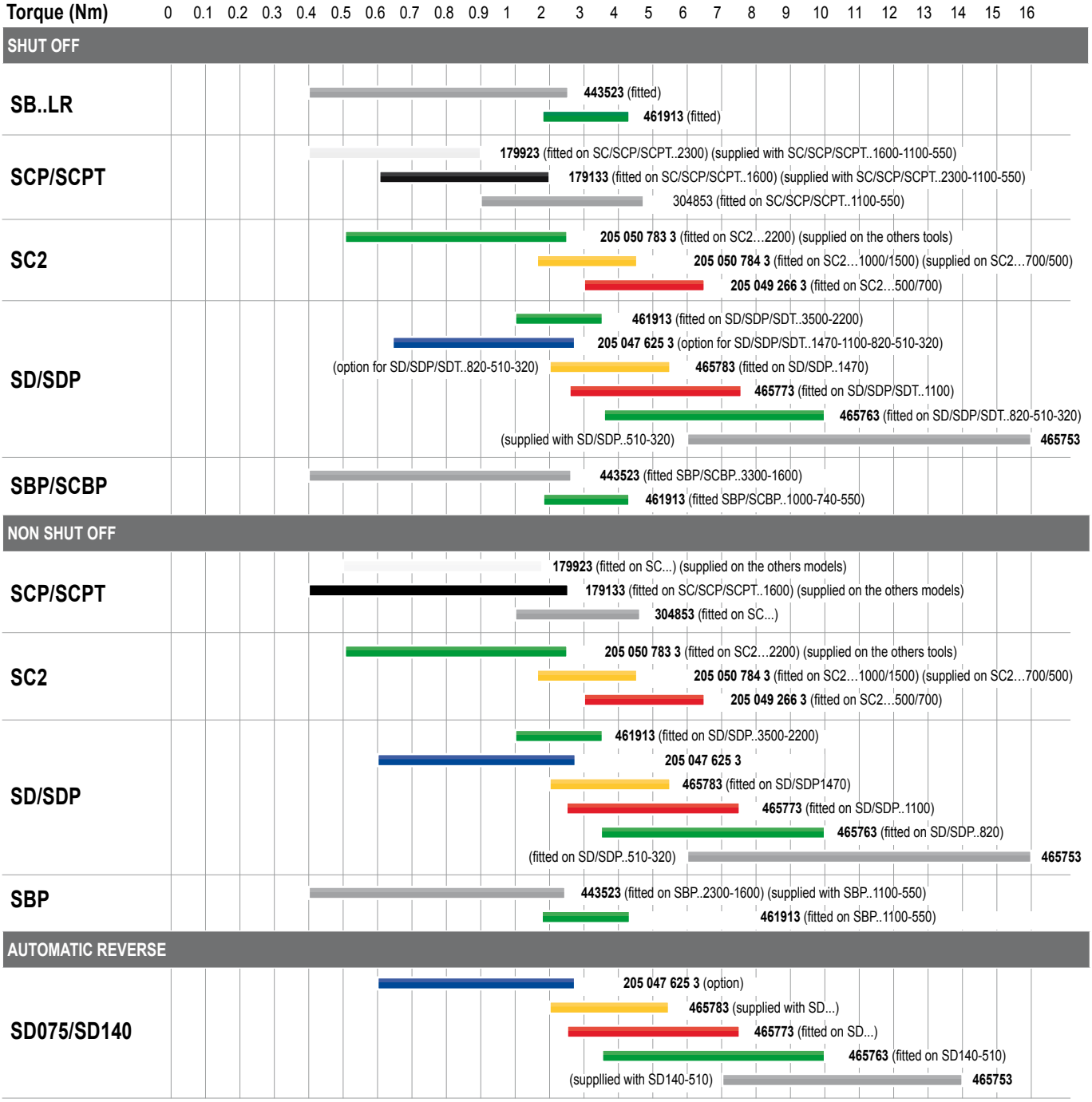
Angle Head
1/4" Hexagon
Drive
465593

Modularity, a concept for all Desoutter pneumatic screwdrivers range

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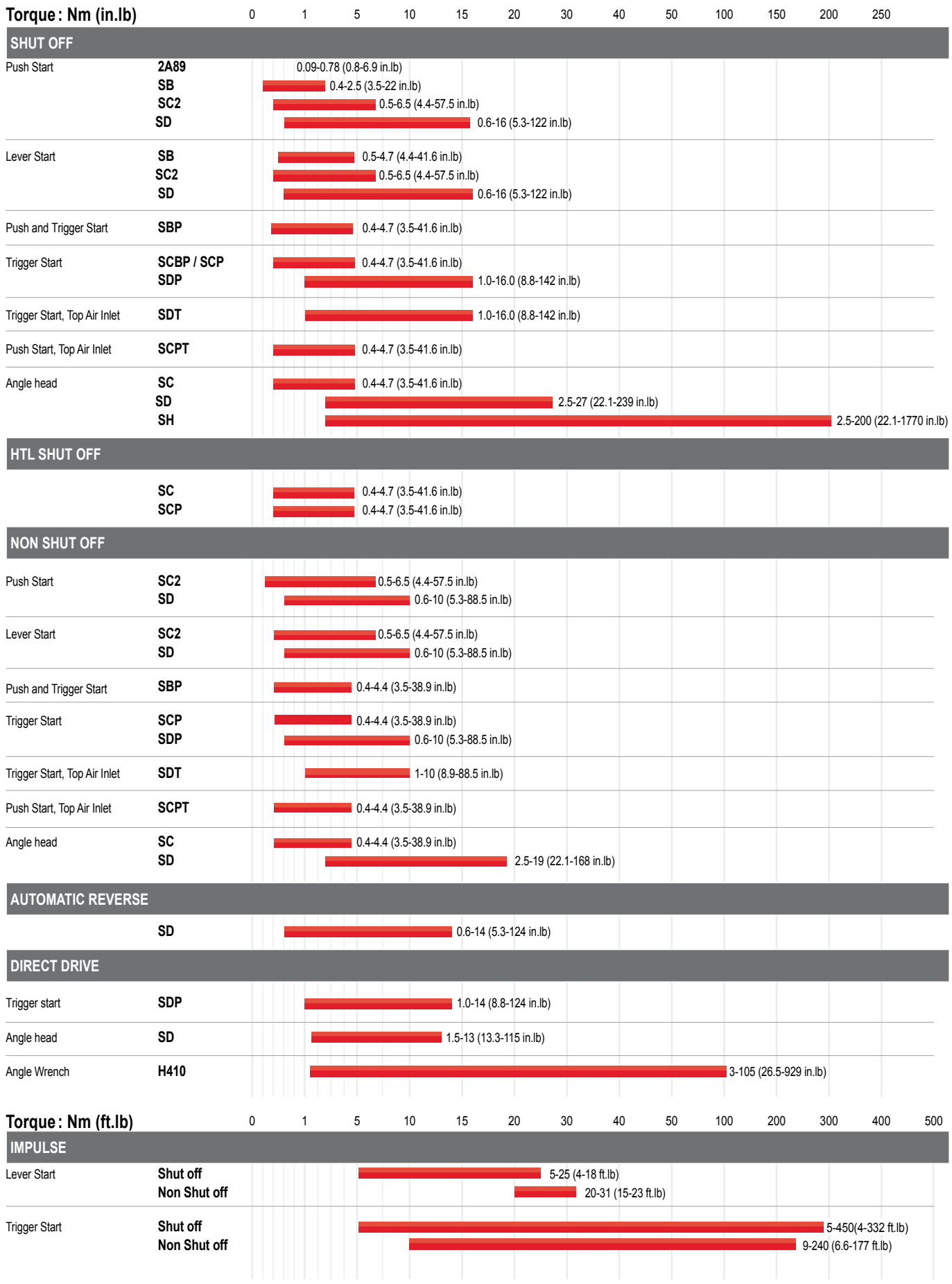
Screwdriver Torque Ranges

Torque output of the range of shut off and non shut off screwdrivers is controlled by the type of spring in the clutch assembly.
The overall torque range, together with that of the factory fitted spring on a soft joint to ISO5393 are listed in the tables on the following pages. The chart below provides an indication of the torque ranges for the optional colour coded clutch springs together with their respective part numbers (some are included with certain tools) As a general rule, the tool should be fitted with a spring which ensures the torque required falls within 20 to 80 % of the operating range.
Please note that the torque range of specific speed tools may alter slightly from that shown below and for this reason the chart should be used as a guide only.



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Tool Types and Torque Ranges



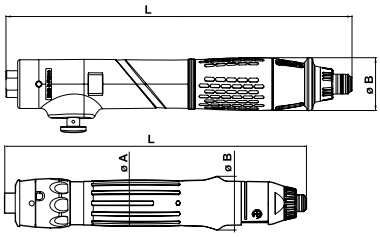
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Screwdrivers - Shut off - Push start

0.09 to 16 Nm (0.8 to 142 in.lb) - 320 to 3500 rpm



Model	ø A mm (in.)	ø B mm (in.)	L mm (in.)
SB..	32 (1.26)	36 (1.42)	197 (7.76)
SC2		37.4 (1.47)	245 (9.65)
SD023..3500	38.7 (1.52)	44 (1.73)	227 (8)
SD035..2200	38.7 (1.52)	44 (1.73)	227 (8)
SD055..1470	38.7 (1.52)	44 (1.73)	253 (10)
SD075..1100	38.7 (1.52)	44 (1.73)	253 (10)
SD100..820	38.7 (1.52)	44 (1.73)	253 (10)
SD140..510	38.7 (1.52)	44 (1.73)	253 (10)
SD160..320	38.7 (1.52)	44 (1.73)	253 (10)



ACCESSORIES
see page 116

Types A to B, 1/4" double ended and 5mm bit holder optional

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	nm	in.
A	SB011-AB1600-S4Q	1460644	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16
A	SB015-AB1100-S4Q	1460634	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16
A	SB025-AB750-S4Q	1460624	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16
A	SB025-AB500-S4Q	1460684	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16
B	SB011-AR1600-S4Q	1460524	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16
B	SB015-AR1100-S4Q	1460514	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16
B	SB025-AR750-S4Q	1460504	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16
B	SB025-AR500-S4Q	1460564	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16
C	SC2-025-A2200-S4Q	205 147 269 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SC2-035-A1500-S4Q	205 147 268 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SC2-045-A1000-S4Q	205 147 267 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SC2-055-A700-S4Q	205 147 266 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SC2-065-A500-S4Q	205 147 265 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SD023-AB3500-S4Q	1462834	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8
D	SD035-AB2200-S4Q	1462824	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10	3/8
D	SD055-AB1470-S4Q	1462814	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
D	SD075-AB1100-S4Q	1462804	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.0-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
D	SD100-AB820-S4Q	1462794	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
D	SD140-AB510-S4Q	1462784	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
D	SD160-AB320-S4Q	1462774	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
E	SD023-AR3500-S4Q	1462764	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.73	1.61	8.7	18.4	1/4	10	3/8
E	SD035-AR2200-S4Q	1462754	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10	3/8
E	SD055-AR1470-S4Q	1462744	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
E	SD075-AR1100-S4Q	1462734	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
E	SD100-AR820-S4Q	1462724	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
E	SD140-AR510-S4Q	1462714	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
E	SD160-AR320-S4Q	1462704	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8

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Screwdrivers - Shut off - Lever start

0.4 to 16 Nm (3.5 to 142 in.lb) - 320 to 3500 rpm







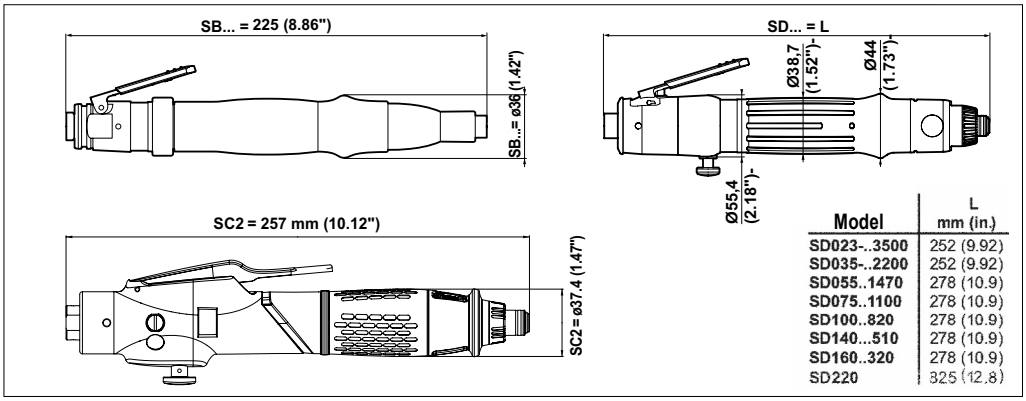




Easy integration with POSCO



See page 82



Model	L mm (in.)
SD023-..3500	252 (9.92)
SD035-..2200	252 (9.92)
SD055..1470	278 (10.9)
SD075..1100	278 (10.9)
SD100..820	278 (10.9)
SD140...510	278 (10.9)
SD160..320	278 (10.9)
SD220	325 (12.8)

ACCESSORIES
see page 116

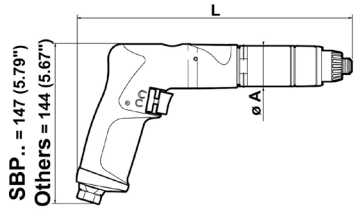
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	nm	in.
A	SB021-LR1400-S4Q	205 147 508 4	1400	1/4 Hex	0.5-2.1	4.4-18.6	0.5-2.1	4.4-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB043-LR1050-S4Q	205 147 507 4	1050	1/4 Hex	0.4-4.3	3.5-38	1.9-4.3	16.7-37.8	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB047-LR500-S4Q	205 147 506 4	500	1/4 Hex	0.4-4.7	3.5-41.6	1.9-4.7	16.7-41.4	0.61	1.34	7.3	15.5	1/8	6	1/4
B	SC2-025-L2200-S4Q	205 147 283 4	2200	1/4 Hex	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-035-L1500-S4Q	205 147 282 4	1450	1/4 Hex	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-045-L1000-S4Q	205 147 281 4	1000	1/4 Hex	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-055-L700-S4Q	205 147 280 4	700	1/4 Hex	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-065-L500-S4Q	205 147 279 4	480	1/4 Hex	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SD023-LB3500-S4Q	1463094	3500	1/4 Hex	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD035-LB2200-S4Q	1463084	2200	1/4 Hex	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD055-LB1470-S4Q	1463074	1470	1/4 Hex	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD075-LB1100-S4Q	1463064	1100	1/4 Hex	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD100-LB820-S4Q	1463054	820	1/4 Hex	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD140-LB510-S4Q	1463044	510	1/4 Hex	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD160-LB320-S4Q	1463034	320	1/4 Hex	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD023-LR3500-S4Q	1463024	3500	1/4 Hex	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD035-LR2200-S4Q	1463014	2200	1/4 Hex	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD055-LR1470-S4Q	1463004	1470	1/4 Hex	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD075-LR1100-S4Q	1462994	1100	1/4 Hex	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD100-LR820-S4Q	1462984	820	1/4 Hex	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD140-LR510-S4Q	1462974	510	1/4 Hex	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD160-LR320-S4Q	1462964	320	1/4 Hex	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD220-LR320-S4Q	205147937 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4	1/4	10	3/8
E	SD220-LR320-S10S	205147979 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4	1/4	10	3/8

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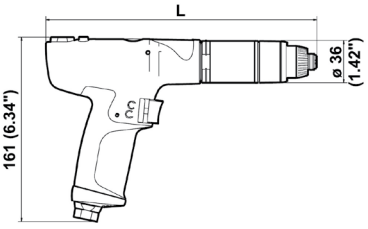
Screwdrivers - Shut off - Pistol grip

0.4 to 16 Nm (3.5 to 142 in.lb) - 180 to 3500 rpm





Model	ØA mm (in.)	L mm (in.)
SBP..	31 (1.22)	182 (7.17)
SCBP..	31 (1.22)	182 (7.17)
SCP...	34 (1.34)	228 (8.97)
SCPT...	34 (1.34)	230 (9.06)
SDP023..3400	36 (1.42)	194 (7.64)
SDP035..2100	36 (1.42)	194 (7.64)
SDP055..1400	36 (1.42)	220 (8.66)
SDP075..1050	36 (1.42)	220 (8.66)
SDP100..780	36 (1.42)	220 (8.66)
SDP140..490	36 (1.42)	220 (8.66)
SDP160..300	36 (1.42)	220 (8.66)
SDP045..180	36 (1.42)	220 (8.66)



Model	L mm (in.)
SDT035..1100	212 (8.35)
SDT035..2200	212 (8.35)
SDT055..1470	238 (9.37)
SDT075..1100	238 (9.37)
SDT100..800	238 (9.37)
SDT140..510	238 (9.37)
SDT160..320	238 (9.37)

ACCESSORIES
voir page 116

Types D and E, Top air inlet

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
PUSH AND TRIGGER START															
A	SBP021-T2300-S4Q	1462144	2300	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP021-T1600-S4Q	1462154	1600	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP043-T1100-S4Q	1462164	1100	1/4	0.4-4.3	3.5-38	1.8-4.3	15.9-38.0	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP047-T550-S4Q	1462174	550	1/4	0.4-4.7	3.5-41.6	1.8-4.7	15.9-41.5	0.82	1.81	6.5	13.8	1/8	6	1/4
TRIGGER START															
A	SCBP021-T2300-S4Q	1466374	2300	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP021-T1600-S4Q	1466364	1600	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP043-T1100-S4Q	1466354	1100	1/4	0.4-4.3	3.5-38	1.8-4.3	15.9-38	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP044-T740-S4Q	1466344	740	1/4	0.4-4.4	3.5-39	1.8-4.4	15.9-39	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP047-T550-S4Q	1466334	550	1/4	0.4-4.7	3.5-41.6	1.8-4.7	15.9-41.6	0.82	1.81	6.5	13.8	1/8	6	1/4
B	SCP021-T2300-S4Q	1456734	2300	1/4	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP021-T1600-S4Q	1456744	1600	1/4	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP043-T1100-S4Q	1456754	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP047-T550-S4Q	1456764	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4
C	SDP023-T3400-S4Q	1465574	3400	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.9	1.98	9.0	19.1	1/4	10	3/8
C	SDP035-T2100-S4Q	1465564	2100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.9	1.98	9.0	19.1	1/4	10	3/8
C	SDP055-T1400-S4Q	1465554	1400	1/4	1.0-5.5	8.9-48.7	1.0-5.5	8.9-48.7	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP075-T1050-S4Q	1465544	1050	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T780-S4Q	1465534	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP140-T490-S4Q	1465524	490	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP160-T300-S4Q	1465514	300	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP045-T180-S4Q	205 146 706 4	180	1/4	1.5-4.5	13.3-39.8	1.5-4.5	13.3-39.8	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT035-T1100-S4Q	205 147 623 4	1100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT035-T2200-S4Q	1465774	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT055-T1470-S4Q	1465764	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT075-T1100-S4Q	1465754	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T820-S4Q	1465744	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT140-T510-S4Q	1465734	510	1/4	3.5-14	31.0-124	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT160-T320-S4Q	1465724	320	1/4	3.5-16	31.0-142	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
PUSH START, TOP AIR INLET															
E	SCPT021-A2300-S4Q	1458974	2300	1/4	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT021-A1600-S4Q	1458934	1600	1/4	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT043-A1100-S4Q	1458894	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38.0	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT047-A550-S4Q	1458854	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4

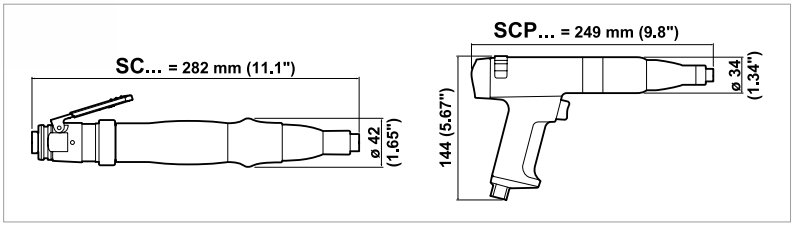
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Screwdrivers - Shut off HLT

0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 1600 rpm

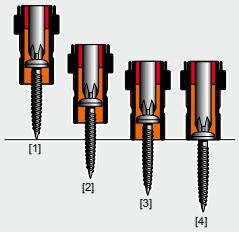




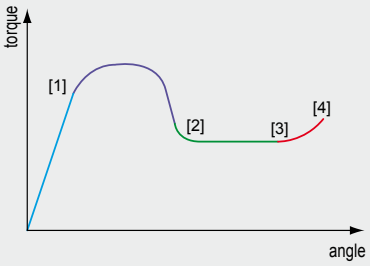


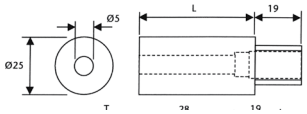
TYPICAL HLT CYCLE

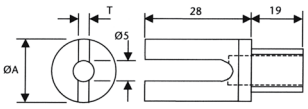
1 Tool starts to cut/form thread – direct drive
2 Thread is cut/formed, rundown continues direct drive
3 Depth stop touches component, drive engages clutch
4 Final torque achieved, clutch operates and air supply is shut off



Depth stop changes tool from direct drive to clutch operation







DEPTH STOPS

PIC REF	PART NUMBER	LENGTH
		mm
C	440833	28
C	440843	48
C	440853	127

PIC REF	PART NUMBER	T	ØA
		mm	mm
D	440863*	5	25

** Supplied with tools*

ACCESSORIES
see page 116

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SC021-L1600-HLT4M	1459614	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L1100-HLT4M	1459654	1100	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L550-HLT4M	1459664	550	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC043-L1100-HLT4M	1459624	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	0.79	1.74	7	15.4	1/8	6	1/4
A	SC047-L550-HLT4M	1459634	550	1/4	0.9-4.7	7.9-41.6	0.9-4.7	7.9-41.6	0.79	1.74	7	15.4	1/8	6	1/4
B	SCP021-T1600-HLT4M	1459714	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP043-T1100-HLT4M	1459734	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP047-T550-HLT4M	1459754	550	1/4	0.9-4.7	7.9-41.6	0.9-4.7	7.9-41.6	1.00	2.20	7	15.4	1/8	6	1/4

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Angle Head - Shut off

0.4 to 27 Nm (3.5 to 239 in.lb) - 170 to 2200 rpm


A


B


C


D

ACCESSORIES
see page 118

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
TWO WAY																	
A	SC021-L2000-S90A4S	1459154	2000	1/4 sq	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC021-L1400-S90A4S	1459144	1400	1/4 sq	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC043-L950-S90A4S	1459134	950	1/4 sq	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC047-L500-S90A4S	1459124	500	1/4 sq	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC021-L2000-S90A4H	1459074	2000	1/4 hex	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC021-L1400-S90A4H	1459064	1400	1/4 hex	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC043-L950-S90A4H	1459054	950	1/4 hex	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC047-L500-S90A4H	1459044	500	1/4 hex	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
C	SD070-LB1100-S90-A4H	1463254	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB820-S90-A4H	1463244	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB510-S90-A4H	1463234	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB320-S90-A4H	1463224	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-S90-A4H	1463294	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR510-S90-A4H	1463274	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-S90-A4H	1463264	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB1100-S90-A4S	1463374	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB820-S90-A4S	1463364	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB510-S90-A4S	1463354	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB320-S90-A4S	1463344	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-S90-A4S	1463414	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR820-S90-A4S	1463404	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR510-S90-A4S	1463394	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-S90-A4S	1463384	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR170-S90-A4S	205 146 705 4	170	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	306	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD072-LB1080-S90-A10S	1463504	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD095-LB800-S90-A10S	1463494	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LB600-S90-A10S	1463484	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LB370-S90-A10S	1463474	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD300-LB250-S90-A10S	1463464	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD072-LR1080-S90-A10S	1463554	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD095-LR800-S90-A10S	1463544	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LR600-S90-A10S	1463534	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LR370-S90-A10S	1463524	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD300-LR250-S90-A10S	1463514	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD300-LR180-S90-A10S	205 146 704 4	180	3/8 sq	11-27	97.3-239	11-27	97.3-239	375	14.8	1.50	3.30	8.7	18.4	1/4	10	3/8

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SH range - Angle head - Shut off

2.5 to 200 Nm (22.1 to 1770 in.lb) - 80 to 1100 rpm

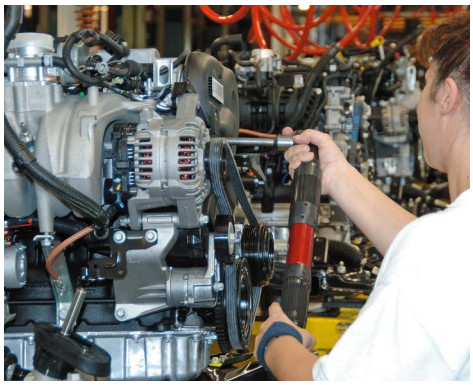


PRODUCTIVITY
- High speed with joint stiffness capability

QUALITY
- High accuracy with immediate shut off
- Improve your process quality with FAS3000

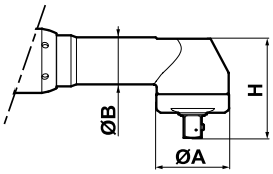
ERGONOMY
- Low reaction force on hard joint

DURABILITY
- Low frequency maintenance
- Quick service time



Option:
Reaction bar for SH850/1200/2000





MODEL	ANGLE HEAD DIMENSIONS					
	ØA		ØB		H	
	mm	in.	mm	in.	mm	in.
SH70	20	0.79	20	0.79	36.6	1.44
SH150	22	0.87	21	0.83	35.2	1.38
SH200	27	1.06	27	1.06	45.5	1.79
SH280	27	1.06	24	0.94	41.5	1.63
SH420	40	1.57	29	1.10	56.5	2.20
SH500	40	1.57	29	1.10	56.5	2.20
SH700	40	1.57	29	1.10	56.5	2.20
SH850	51	2.00	33	1.30	69.5	2.70
SH1200	51	2.00	33	1.30	69.5	2.70
SH2000	51	2.00	33	1.30	69.5	2.70

ACCESSORIES
see page 118

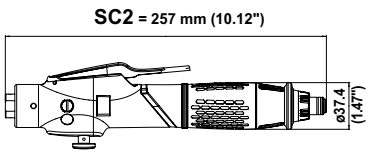
PIC REF	MODEL	PART NUMBER	BOLT SIZE	FREE SPEED	SQUARE DRIVE	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			mm	rpm	in	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	**SH70-LR1100-S90-A4S**	**205 147 628 4**	M5	1100	1/4	2.5-7	22.1-61.9	334	13.1	1.3	2.9	8	17	1/4	8	5/16
B	**SH150-LR580-S90-A10S**	**205 147 629 4**	M6	560	3/8	7-15	61.9-44.2	349	13.7	1.4	3.1	10	21	1/4	10	3/8
B	**SH200-LR550-S90-A10S**	**205 147 630 4**	M6	530	3/8	10-19	88.5-168	355	14.0	1.4	3.1	10	21	1/4	10	3/8
B	**SH280-LR350-S90-A10S**	**205 147 631 4**	M8	340	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
B	**SH280-LR80-S90-A10S**	**205 147 632 4**	M8	80	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
C	**SH420-LR400-S90-A10S**	**205 147 800 4**	M10	400	3/8	20-42	177-372	436	17.2	2.0	4.4	16	34	1/4	10	3/8
C	**SH500-LR330-S90-A13S**	**205 147 473 4**	M10	330	1/2	25-50	221-442	453	17.8	2.2	4.8	16	34	1/4	10	3/8
D	**SH700-LR225-S90-A13S**	**205 147 474 4**	M10-M12	225	1/2	34-70	301-619	487	19.2	2.4	5.3	16	34	1/4	10	3/8
D	**SH850-LR190-S90-A13S**	**205 147 475 4**	M12	190	1/2	40-85	354-752	530	20.8	2.8	6.1	16	34	1/4	10	3/8
E	**SH1200-LR215-S90-A13S**	**205 147 476 4**	M12-M14	215	1/2	70-120	354-1062	590	23.2	3.5	7.6	28	59	1/2	13	1/2
E	**SH2000-LR100-S90-A13S**	**205 147 801 4**	M12-M14	100	1/2	115-200	1018-1770	608	23.9	4.4	9.7	28	59	1/2	13	1/2

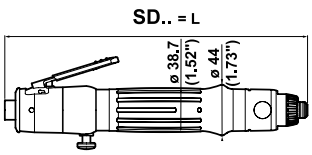
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Screwdrivers - Non Shut off - Push and Lever start

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 510 to 3500 rpm







Model	L mm (in.)
SD023..3500	252 (9.92)
SD035..2200	252 (9.92)
SD055..1470	278 (10.9)
SD075..1100	278 (10.9)
SD100..820	278 (10.9)
SD100..510	278 (10.9)

ACCESSORIES
see page 116

Types A, B and F - 5/16" hex bit holder optional

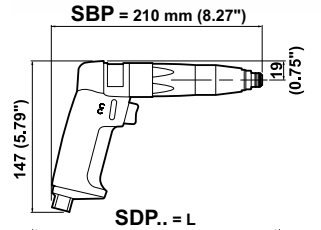
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
PUSH START															
A	SC2-035-A1500-R4Q	205 147 275 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-045-A1000-R4Q	205 147 274 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-055-A700-R4Q	205 147 273 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-065-A500-R4Q	205 147 272 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SD023-AB3500-R4Q	1462954	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8
B	SD035-AB2200-R4Q	1462944	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8
B	SD055-AB1470-R4Q	1462934	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD075-AB1100-R4Q	1462924	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD100-AB820-R4Q	1462914	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD100-AB510-R4Q	1462904	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD023-AR3500-R4Q	1462894	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8
C	SD035-AR2200-R4Q	1462884	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8
C	SD055-AR1470-R4Q	1462874	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD075-AR1100-R4Q	1462864	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD100-AR820-R4Q	1462854	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD100-AR510-R4Q	1462844	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
LEVER START															
D	SC2-025-L2200-R4Q	205 147 290 4	2200	1/4	0.5-2.5	4.4-22.0	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-035-L1500-R4Q	205 147 289 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-045-L1000-R4Q	205 147 288 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-055-L700-R4Q	205 147 287 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-065-L500-R4Q	205 147 286 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
E	SD023-LB3500-R4Q	1463214	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8
E	SD035-LB2200-R4Q	1463204	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8
E	SD055-LB1470-R4Q	1463194	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD075-LB1100-R4Q	1463184	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD100-LB820-R4Q	1463174	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD100-LB510-R4Q	1463164	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD023-LR3500-R4Q	1463154	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8
F	SD035-LR2200-R4Q	1463144	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8
F	SD055-LR1470-R4Q	1463134	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD075-LR1100-R4Q	1463124	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD100-LR820-R4Q	1463114	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD100-LR510-R4Q	1463104	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8

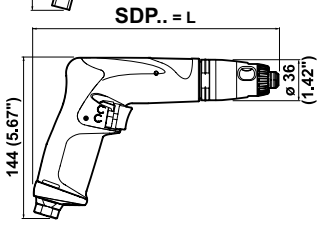
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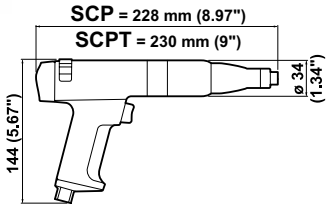
Screwdrivers - Non Shut Off - Pistol Grip

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 300 to 3500 rpm

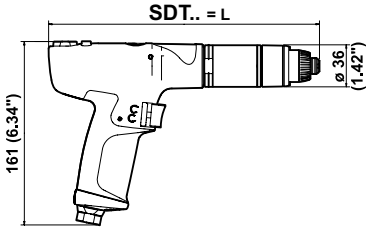








Model	L mm (in.)
SDP023-T3400	222 (8.74)
SDP035-T2100	222 (8.74)
SDP055-T1400	248 (9.76)
SDP075-T1050	248 (9.76)
SDP100-T780	248 (9.76)
SDP100-T490	248 (9.76)
SDP100-T300	248 (9.76)



Model	L mm (in.)
SDT023..3500	212 (8.35)
SDT035..2200	212 (8.35)
SDT055..1470	238 (9.37)
SDT075..1100	238 (9.37)
SDT100..800	238 (9.37)
SDT140..510	238 (9.37)
SDT160..320	238 (9.37)

ACCESSORIES
see page 116

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
PUSH AND TRIGGER START															
A	SBP024-T2300-R4Q	1462184	2300	1/4	0.5-2.4	4.4-21.2	0.5-2.4	4.4-21.2	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP022-T1600-R4Q	1462194	1600	1/4	0.5-2.2	4.4-19.4	0.5-2.2	4.4-19.4	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP044-T1100-R4Q	1462204	1100	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP044-T550-R4Q	1462214	550	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4
TRIGGER START															
B	SCP022-T1600-R4Q	1456784	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP044-T1100-R4Q	1456794	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP044-T550-R4Q	1456804	550	1/4	0.4-4.4	3.5-38.9	1.0-4.4	8.9-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
C	SDP023-T3400-R4Q	1465644	3400	1/4	1.0-2.3	8.8-20.3	1.0-2.3	8.9-20.3	0.90	1.98	9.0	19.1	1/4	10	3/8
C	SDP035-T2100-R4Q	1465634	2100	1/4	1.0-3.5	8.8-31.0	1.0-3.5	8.9-31.0	0.90	1.98	9.0	19.1	1/4	10	3/8
C	SDP055-T1400-R4Q	1465624	1400	1/4	1.0-5.5	8.8-48.6	1.0-5.5	8.9-48.6	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP075-T1050-R4Q	1465614	1050	1/4	0.6-7.5	5.3-66.3	2.5-7.5	22.1-66.3	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T780-R4Q	1465604	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T490-R4Q	1465594	490	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T300-R4Q	1465584	300	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
D	SDT023-T3500-R4Q	205 147 635 4	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT035-T2200-R4Q	205 147 636 4	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31.0	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT055-T1470-R4Q	205 147 637 4	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT075-T1100-R4Q	205 147 638 4	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T820-R4Q	205 147 639 4	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T510-R4Q	205 147 644 4	510	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T320-R4Q	205 147 641 4	320	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8
PUSH START, TOP AIR INLET															
E	SCPT024-A2300-R4Q	1458994	2300	1/4	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT022-A1600-R4Q	1458954	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT044-A1100-R4Q	1458914	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4

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Angle head - Non Shut off

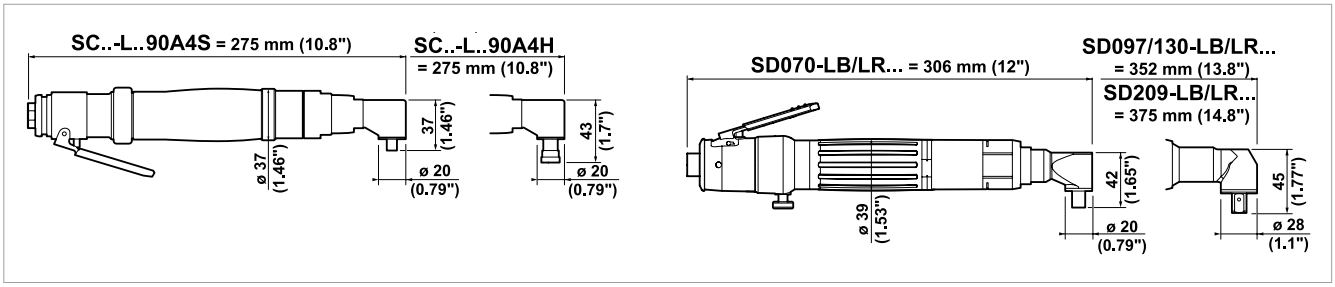
0.4 to 19 Nm (3.5 to 168 in.lb) - 320 to 2000 rpm











ACCESSORIES
see page 118

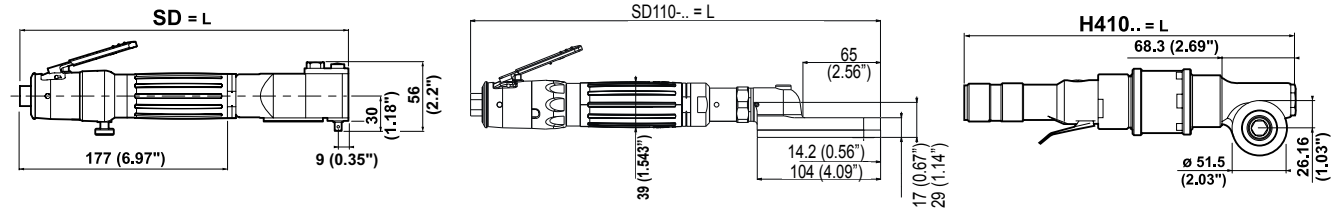
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SC024-L2000-R90A4S	1459194	2000	1/4 sq	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC022-L1400-R90A4S	1459184	1400	1/4 sq	0.5-2.2	4.4-19.5	0.8-2.2	7.1-19.5	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC044-L950-R90A4S	1459174	950	1/4 sq	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC044-L500-R90A4S	1459164	500	1/4 sq	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC024-L2000-R90A4H	1459114	2000	1/4 hex	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC044-L950-R90A4H	1459094	950	1/4 hex	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC044-L500-R90A4H	1459084	500	1/4 hex	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4
C	SD070-LB1100-R90-A4H	1463334	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB820-R90-A4H	1463324	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB510-R90-A4H	1463314	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR320-R90-A4H	1463624	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB1100-R90-A4S	1463454	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB510-R90-A4S	1463434	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-R90-A4S	1463664	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
D	SD097-LB1080-R90-A10S	1463584	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LB600-R90-A10S	1463574	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LB370-R90-A10S	1463564	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD097-LR1080-R90-A10S	1463724	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LR600-R90-A10S	1463714	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LR370-R90-A10S	1463704	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	1.50	3.31	8.7	18.4	1/4	10	3/8

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Angle Head - Direct drive

1.5 to 105 Nm (13.3 to 929 in.lb) - 60 to 800 rpm





SD - Stall Torque (Nm) Setting using Regulator Part No. 81223

ACCESSORIES
see page 118

MODEL	REGULATOR POSITION						
	1	2	3	4	5	6	OPEN
INLET PRESSURE - 6.3 BAR							
SD130-LB500-D90-A4S	3.2	3.5	5.3	7.0	10.0	12.5	13.0
SD096-LB800-D90-A4S	2.6	2.8	4.0	5.5	7.3	9.0	9.6
INLET PRESSURE - 4.0 BAR							
SD130-LB500-D90-A4S	2.0	2.7	3.0	4.2	6.0	8.2	9.0
SD096-LB800-D90-A4S	1.5	1.7	2.5	3.0	4.5	5.5	6.0

H410 - Stall Torque (Nm) Setting using a Typical Regulator

MODEL	REGULATOR POSITION									
	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	OPEN
INLET PRESSURE - 6.3 BAR										
H410-N-500	3	6	9	12	15	18	21	24	27	30
H410-N-350	5	9	14	18	23	27	32	36	41	45
H410-N-150	8	16	24	32	40	48	56	64	72	80
H410-N-90	16	32	48	63	79	95	-	-	-	-
H410-N-60	20	40	60	80	-	-	-	-	-	-
INLET PRESSURE - 4.0 BAR										
H410-N-500	2	4	6	8	9	11	13	15	17	19
H410-N-350	3	6	9	11	14	17	20	23	26	28
H410-N-150	5	10	15	20	25	30	35	40	45	50
H410-N-90	10	20	30	40	50	60	70	80	90	100
H410-N-60	4	30	45	60	75	90	105	-	-	-

Maximum stall torque 105Nm
Performance will differ from the figures above depending on the regulator used
Data obtained from a lubricated air line
Torque figures are to be used as a guide only
** Must never be used without regulator with a pressure higher than 4 bars*
*** Must never be used without regulator with a pressure higher than 2 bars*

H410-N – When using direct drive screwdrivers, it is strongly advised to equip the machines with a re-action bar to compensate against potentially high torque reaction and avoid operator injury

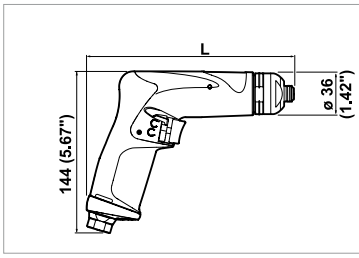
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		LENGTH L		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	SD130-LB500-D90-A4S	1465974	500	1/4 sq	2-13	17.7-115	326	12.8	1.08	2.38	8.7	18.4	1/4	10	3/8
A	SD096-LB800-D90-A4S	1465984	800	1/4 sq	1.5-9.6	13.3-85	326	12.8	1.08	2.38	8.7	18.4	1/4	10	1/4
B	SD110-LX450	205 148 131 4	450	0.445 hex	1.5-11.8	13.3-104	346	13.6	1.34	2.95	8.5	18.0	1/4	10	1/4
C	H410-N-500	1302374	500	0.525 hex	3-30	26.6-265	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2
C	H410-N-350	1302454	350	0.525 hex	4.5-45	39.8-398	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2
C	H410-N-150	1302534	150	0.525 hex	8-80	70.8-708	358	14.1	2.00	4.41	17.9	37.9	3/8	12	1/2
C	H410-N-90*	1302614	90	0.525 hex	10-105	88.5-929	358	14.1	2.00	4.41	13.2	27.9	3/8	12	1/2
C	H410-N-60**	1302794	60	0.525 hex	10-105	88.5-929	358	14.1	2.00	4.41	13.2	27.9	3/8	12	1/2

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Screwdrivers - Direct drive Pistol grip

1 to 14 Nm (8.9 to 124 in.lb) - 490 to 3400 rpm





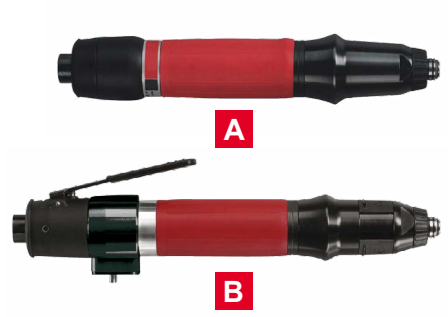
Model	L mm (in.)
SDP023-T3400	182 (7.16)
SDP035-T2100	182 (7.16)
SDP055-T1400	182 (7.16)
SDP075-T1050	182 (7.16)
SDP100-T780	182 (7.16)
SDP140-T490	182 (7.16)

ACCESSORIES
see page 117

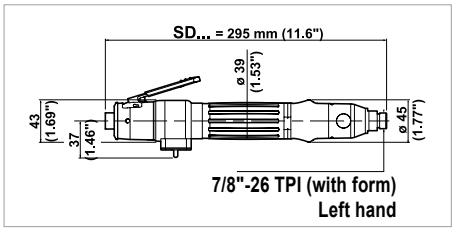
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SDP023-T3400-D4Q	1465714	3400	1/4	1.0-2.3	8.9-20.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP035-T2100-D4Q	1465704	2100	1/4	1.0-3.5	8.9-31.0	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP055-T1400-D4Q	1465694	1400	1/4	1.0-5.5	8.9-48.6	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP075-T1050-D4Q	1465684	1050	1/4	3.5-7.5	31-66.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP100-T780-D4Q	1465674	780	1/4	3.5-10	31-88.5	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP140-T490-D4Q	1465664	490	1/4	3.5-14	31-124	0.8	1.76	9.0	19.1	1/4	10	3/8

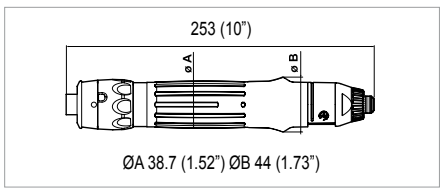
Screwdrivers - Left hand tightening - Shut off Push start Automatic reverse

0.6 to 16 Nm (5.3 to 142 in.lb) - 320 to 1100 rpm



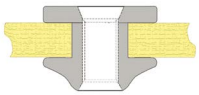
Tool shown with optional clutch HSG and bit adaptor





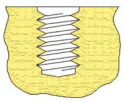
APPLICATIONS

Placement of Threaded Fasteners

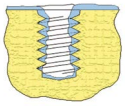




Tapping in Blind Holes



Clearing Tapped Holes after Painting or Coating



ACCESSORIES
see page 116

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
LEFT HAND TIGHTENING - SHUT OFF - PUSH START															
A	SD160L-AR320-S4Q	205 147 799 4	320	1/4	0.6-16	5.3-142	3.5-10	31-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
AUTOMATIC REVERSE															
B	SD140-LA510-S4	1464584	510	See	0.6-14	5.3-124	-	-	1.0	2.2	8.7	18.4	1/4	10	3/8
B	SD075-LA1100-S4	1464604	1100	Accessories	0.6-7.5	5.3-66.4	-	-	1.0	2.2	8.7	18.4	1/4	10	3/8

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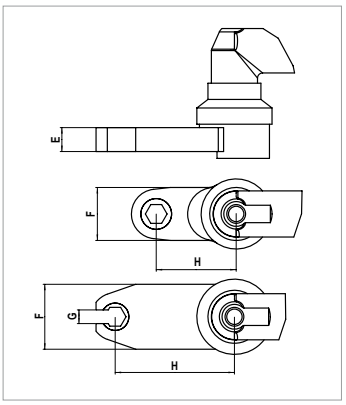
Crowfoot and Tube nut tools - Angle head

16 to 41 Nm (142 to 363 in.lb) - 330 to 430 rpm





MODEL	ACROSS FLATS	E		F		G		H	
	mm	mm	in.	mm	in.	mm	in.	mm	in.
SH330-LB430-CE13-CC53	13	19	0.75	32	1.26	N/A		52.8	2.07
SH410-LB400-CE17-CC68	17	19	0.75	39	1.54	N/A		67.6	2.66
SH330-LB330-OE11-CC53	11	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE11-CC75	11	18	0.71	40	1.57	10.4	0.41	75.3	2.96
SH330-LB330-OE13-CC53	13	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE13-CC75	13	18	0.71	40	1.57	10.4	0.41	75.3	2.96



** Up to 14mm sockets posible as an option*
** Posibility to have extension drive sockets*
** Contact your local Desoutter sales engineer for all other requests*

ACCESSORIES
see page 118

PIC REF	MODEL	PART NUMBER	FREE SPEED	ACROSS FLATS	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	mm	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
OFFSET CROWFOOT TOOLS - SHUT OFF															
A	SH330-LB430-CE13-CC53	205 147 815 4	430	13	16-33	142-212	508	20.0	2.6	5.7	18	38.1	1/4	10	3/8
A	SH410-LB400-CE17-CC68	205 147 817 4	400	17	18-41	159-363	600	23.6	3.9	8.6	28	59.3	1/2	10	3/8
OFFSET TUBE NUT TOOLS - SHUT OFF															
B	SH330-LB330-OE11-CC53	205 147 818 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE11-CC75	205 147 819 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC53	205 147 820 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC75	205 147 821 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8

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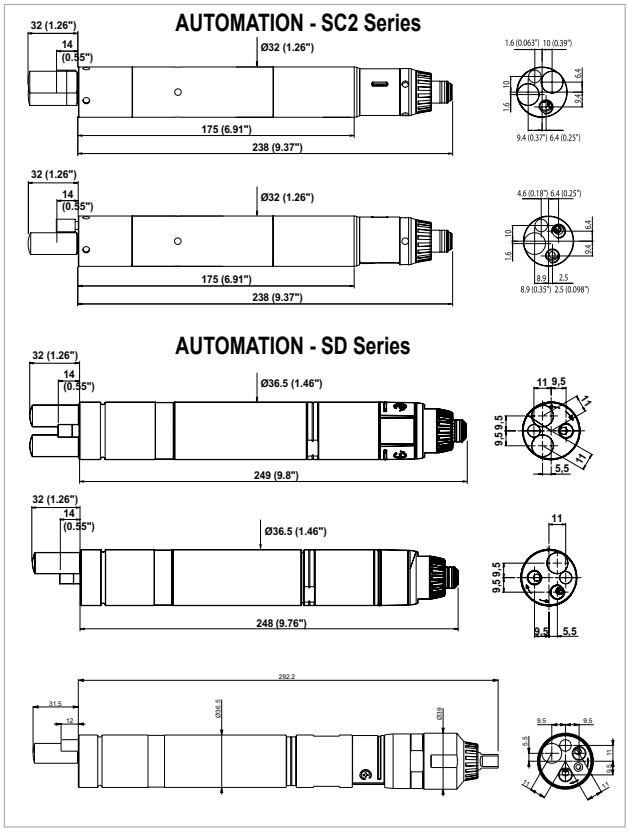
Torque Controlled - Shut Off

0.5 to 16 Nm (4.4 to 142 in.lb) - 320 to 3500 rpm



M5 Port provides signal while tool is running
The signal stops when the clutch operates





ACCESSORIES
see page 119

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
AUTOMATION - PUSH START - SHUT OFF - 1 WAY															
A	SC2-025-1AM2200-S4Q	205 147 426 4	2150	1/4 Hex	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-035-1AM1500-S4Q	205 147 425 4	1450	1/4 Hex	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-045-1AM1000-S4Q	205 147 424 4	1000	1/4 Hex	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-055-1AM700-S4Q	205 147 423 4	670	1/4 Hex	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-065-1AM500-S4Q	205 147 422 4	470	1/4 Hex	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	6	1/4
AUTOMATION - REMOTE START - SHUT OFF - 2 WAY															
B	SC2-025-2RM2200-S4Q	205 147 440 4	2150	1/4 Hex	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-035-2RM1500-S4Q	205 147 439 4	1450	1/4 Hex	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-045-2RM1000-S4Q	205 147 438 4	1000	1/4 Hex	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-055-2RM700-S4Q	205 147 437 4	670	1/4 Hex	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-065-2RM500-S4Q	205 147 436 4	470	1/4 Hex	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	6	1/4
AUTOMATION - PUSH START - SHUT OFF - 1 WAY															
C	SD035-1AM2200-S4Q	1464244	2200	1/4 Hex	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD055-1AM1470-S4Q	1464234	1470	1/4 Hex	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD075-1AM1100-S4Q	1464224	1100	1/4 Hex	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD100-1AM820-S4Q	1464214	820	1/4 Hex	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD140-1AM510-S4Q	1464204	510	1/4 Hex	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD160-1AM320-S4Q	1464194	320	1/4 Hex	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
AUTOMATION - REMOTE START - SHUT OFF - 2 WAY															
D	SD023-2RM3500-S4Q	1464324	3500	1/4 Hex	1.0-2.3	8.8-20.4	1.0-2.3	8.8-20.4	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD035-2RM2200-S4Q	1464314	2200	1/4 Hex	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD055-2RM1470-S4Q	1464304	1470	1/4 Hex	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD075-2RM1100-S4Q	1464294	1100	1/4 Hex	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD100-2RM820-S4Q	1464284	820	1/4 Hex	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD140-2RM510-S4Q	1464274	510	1/4 Hex	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD160-2RM320-S4Q	1464264	320	1/4 Hex	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
E	SD220-2RM320-S4Q	205 147 939 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4		10	3/8
E	SD220-2RM320-S10S	205 147 941 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4		10	3/8

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Accessories



STRAIGHT - PUSH START & LEVER START

ACCESSORIES INCLUDED

ITEM		SB	SC2	SD
•	Suspension bail(s)	443703	205 049 537 3	467003
•	Suspension bail internal		205 051 289 3	
•	Exhaust hose	443723	205 049 584 3	467073
•	Clutch adjustment keys	446583	205 050 785 3	29932
1	Short lever (lever start model)		205 052 020 3	
2	Rings identification		205 049 590 3	
3	Side handle asssembly			467033

OPTIONAL ACCESSORIES

ITEM		SB	SC2	SD
3	Side handle asssembly		205 052 175 3	
•	Double-ended bit holder		205 052 883 3	465523
Balancers & Tool Holster				
4	Spring suspension balancer	50522	50522	52862
5	Hose reel balancer	50552	50552	50562
6	Tool holster DTH-42	107892	107892	107892
Bench Stands (for more information, see pages 153-163)				
7	D53-25 Linear arm (tool clamp included)	615 810 702 0	615 810 702 0	615 810 702 0
7	D53-25X Linear arm (tool clamp included)	615 810 703 0	615 810 703 0	615 810 703 0
8	D53-25S Folder arm (tool clamp included)	615 810 708 0	615 810 708 0	615 810 708 0
9	D57 Balancing arm	408903	408903	408903
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
9	D57X Balancing arm	408913	408913	408913
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
10	D58 Balancing arm	408923	408923	408923
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0
11	TRA12 / TRA25 Telescopic reaction arm		(see page 156)	
12	TT10 / TT25 Torque Tube Arm		(see page 159)	
Vacuum Pick Up - Order Pick Up kit, Finder Sleeve & Vacuum Source				
13	Vacuum pick up kit (spring only for 2A89)	108892		108892
14	Finder sleeve blank - plastic	464093		464093
•	Finder sleeve blank - steel	464103		464103
15	Vacuum source AV201 for use with filter/regulator unit			112063
Miscellaneous				
16	Offset exhaust			205 047 623 3
•	Clutch case 7/8" LH thread 320-1470 rpm			205 047 478 3
•	Clutch case 7/8" LH thread 2200-3500 rpm			205 047 479 3
•	Clutch case without thrust bump, M20x1.0LH thread 320-1470 rpm			465463
•	Clutch case without thrust bump, M20x1.0LH thread 2200-3500 rpm			465443

PISTOL GRIP & HLT



ACCESSORIES INCLUDED

		SCBP	SBP	SCP SCPT	SDP SDT
•	Suspension bail(s)	307683	307683	307683	473153
•	Side handle (320 & 1470 rpm)				467033
•	Clutch adjustment keys (320 - 1470 rpm)	205 047 988 3	446583	29932	29932
•	Clutch adjustment keys (2200 - 3500 rpm)				467293

OPTIONAL ACCESSORIES

ITEM		SBP SCBP	SCP SCPT	SDP SDT
Balancers & Holster				
1	Spring suspension balancer	52862	52862	52862
2	Hose reel balancer	50552	50552	50562
•	Hose reel balancer conversion kit	107403	107403	115193
3	Tool holster DTH-90	615 812 119 0	615 812 119 0	615 812 119 0
Bench Stands (for more information, see pages 172-173)				
4	D59 Pantographic arm	408933	408933	408933
Miscellaneous				
5	Side handle	70442	70442	467033

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DIRECT DRIVE

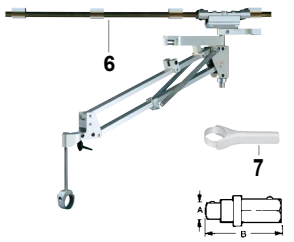
ACCESSORIES INCLUDED



		SDP	SD	H410
•	Suspension bail(s)	473153	467003	70042
•	Side handle	467033		
•	Exhaust hose		467073	

OPTIONAL ACCESSORIES





ITEM		SDP	SD	H410
•	Air flow regulator	81223	81223	
Balancers & Holster				
1	Spring suspension balancer	52862	50532	50542
2	Hose reel balancer	50562	50562	
3	Tool holster DTH-42	107892		
4	Tool holster DTH-90		615 812 119 0	
Suspension Shakle				
5	Suspension shackle		70082	615 571 050 0
•	Swivel suspension shackle			615 396 229 0
Bench Stands (for more information, see pages 172-173)				
6	D59 Pantographic arm	408933		
Miscellaneous				
7	Side handle	467033		
•	Offset exhaust		205 047 623 3	
•	Square drive adaptor 3/8" Square drive, 48mm (1.89") long			14422
•	Square drive adaptor 1/2" Square drive, 46mm (1.81") long			14442
•	Square drive adaptor 1/2" Square drive, 76mm (2.99") long			14482
•	Exhaust collector			72163

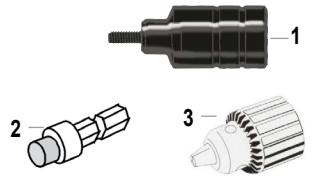
AUTO REVERSE

ACCESSORIES INCLUDED



		SD
•	Suspension bail(s)	467003
•	Side handle	467033
•	Clutch adjustment keys	29932

OPTIONAL ACCESSORIES







ITEM		SD
Placement of Threaded Inserts		
1	M3 x 0.5 Nose kit	76552
1	M4 x 0.7 Nose kit	76562
1	M5 x 0.8 Nose kit	76572
1	M6 x 1.0 Nose kit	76582
1	M8 x 1.25 Nose kit	76592
Blind Hole Tapping/ Cleaning - 3 parts Required		
•	Bit adaptor*	465513
2	Thread adaptor	96743
3	Chuck capacity 8mm (5/16")	205 053 013 3
Balancers & Tool Holster		
4	Spring suspension balancer	50532
5	Reaction free self-lock balancer	54432
6	Tool holster DTH-42	107892
Bench Stands (for more information, see pages 172-173)		
7	D57 Balancing arm	408903
•	Tool clamp	615 396 614 0
7	D57X Balancing arm	408913
•	Tool clamp	615 396 614 0
8	D58 Balancing arm	408923
•	Tool clamp	615 396 614 0
9	TRA25 Telescopic reaction arm	(see page 165)

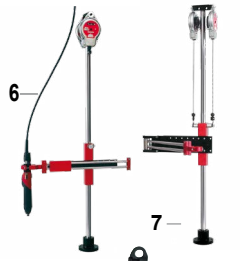
** To order more clutch cover PN 465453 + washer PN 467113*

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Accessories









ANGLE HEAD

ACCESSORIES INCLUDED

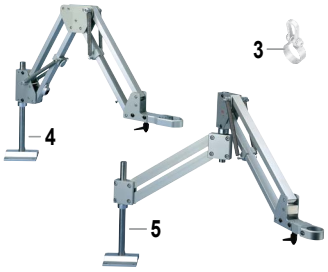
		SC	SD	SH
•	Suspension bail(s)	39433/280893	467003	
•	Exhaust hose	396553	467073	
•	Adjustment keys	29932	29932	205 050 785 3
•	Air hose nipple			205 051 239 3

OPTIONAL ACCESSORIES

ITEM		2D4872	SC	SD	SH
•	Exhaust hose for SH70/150/200/280/420/500/700/850				459813
•	Exhaust hose for SH1200/2000				205 050 181 3
Balancers & Holster					
1	Spring suspension balancer	50532	52862	50532	
1	Spring suspension balancer for SH70/150/200/280				52862
2	Spring suspension balancer for SH420 to SH2000				50052
3	Hose reel balancer	50562	50552	50562	
3	Hose reel balancer for SH70/150/200/280				50562
Suspension Shakle					
•	Suspension shackle		95842	70082	
Suspension bails					
4	Suspension bail for SH70/150/200/280				205 051 632 3
4	Suspension bail for SH420/500/700/850				205 051 113 3
4	Suspension bail for SH1200/2000				615 396 562 0
Swiveling bails					
5	Swiveling bail for SH420/500/750/850				205 051 115 3
5	Swiveling bail for SH1200/2000				205 051 232 3
Bench Stands (for more information, see pages 153-163)					
6	D53-25 Linear arm (tool clamp included)	615 810 702 0	615 810 702 0	615 810 702 0	615 810 704 0
6	D53-25X Linear arm, extended reach	615 810 703 0	615 810 703 0	615 810 703 0	
7	D53-25S Folder arm (tool clamp included)	615 810 707 0	615 810 707 0	615 810 707 0	615 810 709 0
Bench Stands (for more information, see pages 172-173)					
8	D57 Balancing arm	408903	408903	408903	
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
8	D57X Balancing arm	408913	408913	408913	
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
9	D58 Balancing arm	408923	408923	408923	
•	Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
10	TRA12 / TRA25 Telescopic reaction arm		(see page 156)		
11	TT10 / TT25 Torque Tube Arm		(see page 159)		
Miscellaneous					
•	Offset exhaust			205 047 623 3	
•	Bench mounted swing arm	66542	66542	66542	66542
12	Protective cover for SH70/150/200/280				205 011 426 2
12	Protective cover for SH420/500				205 050 182 3
12	Protective cover for SH700/850				205 050 235 3
12	Protective cover for SH1200/2000				205 050 252 3
13	Complete reaction bar kit for SH850/1200/2000				205 051 121 3
14	Reporting kit for SH70 (for connexion with FAS)				205 011 424 2
14	Reporting kit for SH150/200/280 (for connexion with FAS)				205 011 425 2
14	Reporting kit for SH420/500/700/850 (for connexion with FAS)				205 050 175 3
14	Reporting kit for SH1200/2000 (for connexion with FAS)				205 050 176 3







OPEN ENDED WRENCHES

ACCESSORIES INCLUDED

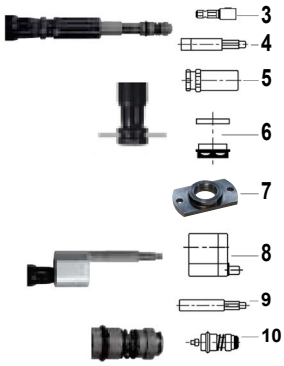
		SD
•	Suspension bail(s)	467003
•	Exhaust hose	467073
•	Clutch adjustment keys	29932

OPTIONAL ACCESSORIES

ITEM		SD
Balancers		
1	Spring suspension balancer	50542
2	Hose reel balancer	50562
Suspension Shakle		
3	Suspension shackle	70082
Bench Stands (for more information, see pages 160-161)		
4	D57 Balancing arm	408903
•	Tool clamp	615 396 614 0
4	D57X Balancing arm	408913
•	Tool clamp	615 396 614 0
5	D58 Balancing arm	408923
•	Tool clamp	615 396 614 0
Miscellaneous		
•	Offset exhaust	205 047 623 3

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TORQUE CONTROLLED

ACCESSORIES INCLUDED

ITEM		SC2 / SD
1	Muffler	205 045 792 3
2	Straight fitting	205 044 497 3

OPTIONAL ACCESSORIES

ITEM		PART NO.
•	**Spring Loaded Shats and Bearings Support (including 3, 4, 5)**	
3	Bit Adaptor	103782
4	Spring Loaded Shatf 25mm (1")	108342
5	Shaft Support and Nose Mount	108412
6	Nose Mounts	205 052 876 3
7	Flange M20	205 052 875 3
•	**Offset Head & Spring Loaded shaft (Including 8, 9)**	
8	Offset Head , offset 30mm (1.18")	384993
9	Spring Loaded Shaft 25mm (1") stroke	108342
10	3/8" Square to 1/4" Hex Power Adaptor	108322

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Pulse Tools - Non Shut off and Shut Off range

5 to 172 Nm (3.6 to 127 ft.lb) - 3400 to 6700 rpm



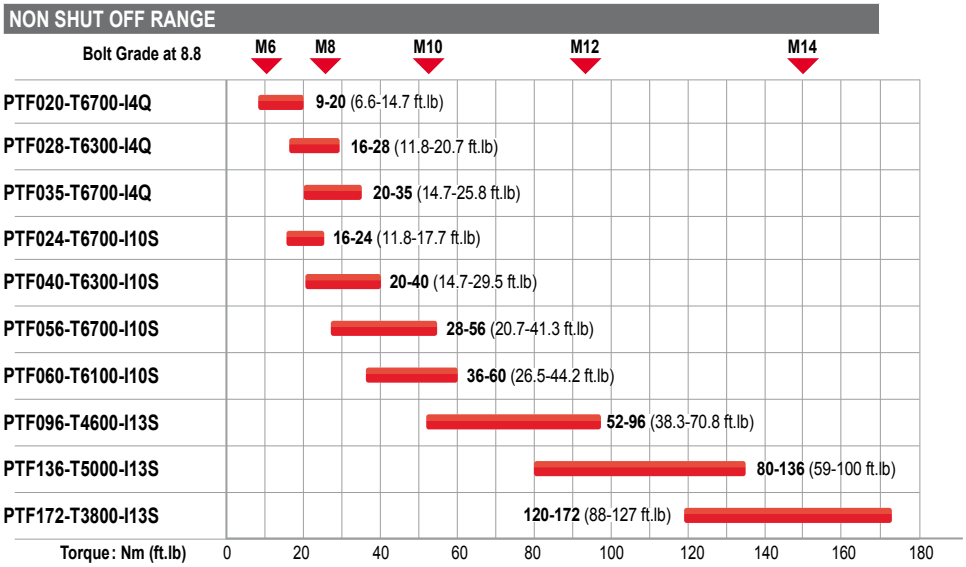
Air inlet: All models 1/4" R

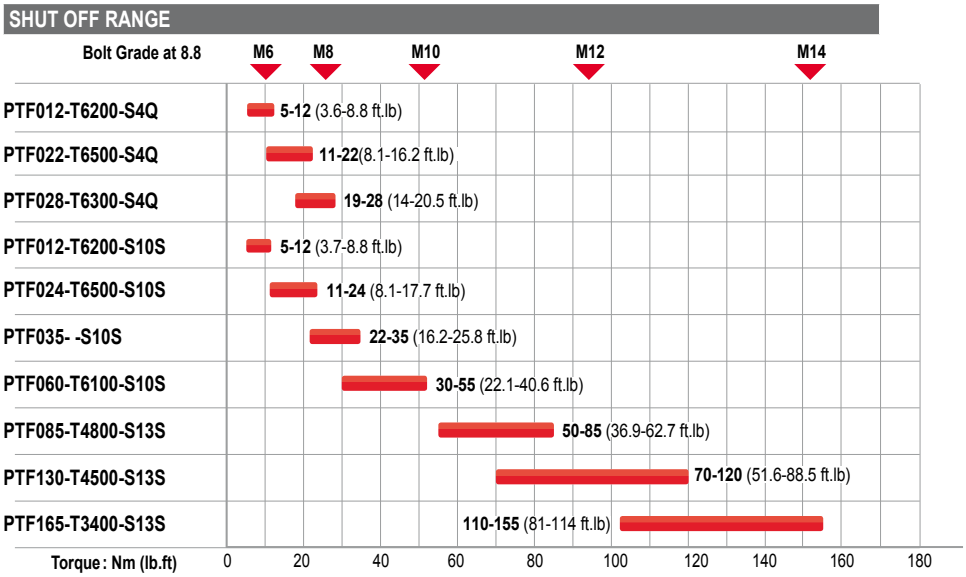
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		DIMENSIONS L		DIMENSIONS X		DIMENSIONS H		WEIGHT		AIR FLOW		HOSE INT. Ø	
			rpm	in.	Nm	ft.lb	mm	in.	mm	in.	mm	in.	kg	lb	l/s	cfm	mm	in.
NON SHUT OFF																		
A	PTF020-T6700-I4Q	615 172 101 0	6700	1/4 Hex	9-20	6.6-14.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.0	12.7	6	1/4
A	PTF028-T6300-I4Q	615 172 102 0	6300	1/4 Hex	16-28	11.8-20.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.7	14.1	6	1/4
A	PTF035-T6700-I4Q	615 172 103 0	6700	1/4 Hex	20-35	14.7-25.8	152	6.0	22	0.87	169	6.6	0.80	1.7	7.0	14.8	10	3/8
B	PTF024-T6700-I10S	615 172 072 0	6700	3/8 Sq	16-24	11.8-17.7	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.0	12.7	6	1/4
B	PTF040-T6300-I10S	615 172 074 0	6300	3/8 Sq	20-40	14.7-29.5	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.7	14.2	10	3/8
B	PTF056-T6700-I10S	615 172 075 0	6700	3/8 Sq	28-56	20.7-41.3	151.5	5.9	22	0.87	165.7	6.5	0.83	1.8	7.0	14.8	10	3/8
B	PTF060-T6100-I10S	615 172 076 0	6100	3/8 Sq	36-60	26.5-44.2	155	6.1	24	0.94	170.0	6.7	1.02	2.2	10.0	21.2	10	3/8
B	PTF096-T4600-I13S	615 172 077 0	4600	1/2 Sq	52-96	38.3-70.8	173	6.8	27	1.06	175.0	6.9	1.45	3.2	10.8	22.9	10	3/8
B	PTF136-T5000-I13S	615 172 078 0	5000	1/2 Sq	80-136	59-100	182.5	7.2	29.5	1.16	186.5	7.3	1.80	4.0	13.3	28.2	10	3/8
B	PTF172-T3800-I13S	615 172 079 0	3800	1/2 Sq	120-172	88-127	191.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.1	10	3/8
SHUT OFF																		
A	PTF012-T6200-S4Q	615 172 104 0	6200	1/4 Hex	5-12	3.6-8.8	181	7.1	22	0.87	169	6.6	1.00	2.2	6.7	14.1	6	1/4
A	PTF022-T6500-S4Q	615 172 105 0	6500	1/4 Hex	11-22	8.1-16.2	181	7.1	22	0.87	169	6.6	1.00	2.2	7.5	15.9	6	1/4
A	PTF028-T6300-S4Q	615 172 106 0	6300	1/4 Hex	19-28	14.0-20.5	193	7.6	22	0.87	169	6.6	1.00	2.2	9.2	19.4	10	3/8
C	PTF012-T6200-S10S	615 172 081 0	6200	3/8 Sq	5-12	3.7-8.8	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	6.7	14.1	6	1/4
C	PTF024-T6500-S10S	615 172 084 0	6500	3/8 Sq	11-24	8.1-17.7	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	7.5	15.9	10	3/8
C	PTF035-T6300-S10S	615 172 087 0	6300	3/8 Sq	22-35	16.2-25.8	192.5	5.9	22	0.87	164.3	6.5	1.00	2.2	9.2	19.4	10	3/8
D	PTF060-T6100-S10S	615 172 088 0	6100	3/8 Sq	30-55	22.1-40.6	189.5	6.1	24	0.94	169.0	6.7	1.10	2.4	10	21.1	10	3/8
D	PTF085-T4800-S13S	615 172 089 0	4800	1/2 Sq	50-85	36.9-62.7	208.5	6.8	27	1.06	175.0	6.9	1.60	3.5	11.3	24.0	10	3/8
D	PTF130-T4500-S13S	615 172 090 0	4500	1/2 Sq	70-120	51.6-88.5	217.5	7.2	29.5	1.16	186.5	7.3	1.85	4.1	13.3	18.2	10	3/8
D	PTF165-T3400-S13S	615 172 091 0	3400	1/2 Sq	110-155	81-114	227.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.0	10	3/8

The tool is designed for a working pressure of 6.3 bar 90 PSI.

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Pulse Tools - Tool Selection





Accessories

ACCESSORIES INCLUDED

	PART NO.
• Air Hose nipple PTF012/024/040	541 205 445 0
• Air Hose nipple (other models)	541 205 445 2
• Suspension bail	541 205 847 4
• Hex pin wrench	-

Pulse Non Shut Off

• Cover protection for PTF020/024/028/040.	541 206 045 6
• Cover protection for PTF060..	541 206 045 8
• Cover protection for PTF056/035.	541 206 045 7
• Cover protection for PTF096..	541 206 045 9
• Cover protection for PTF136..	541 206 046 0
• Cover protection for PTF172..	541 206 046 1

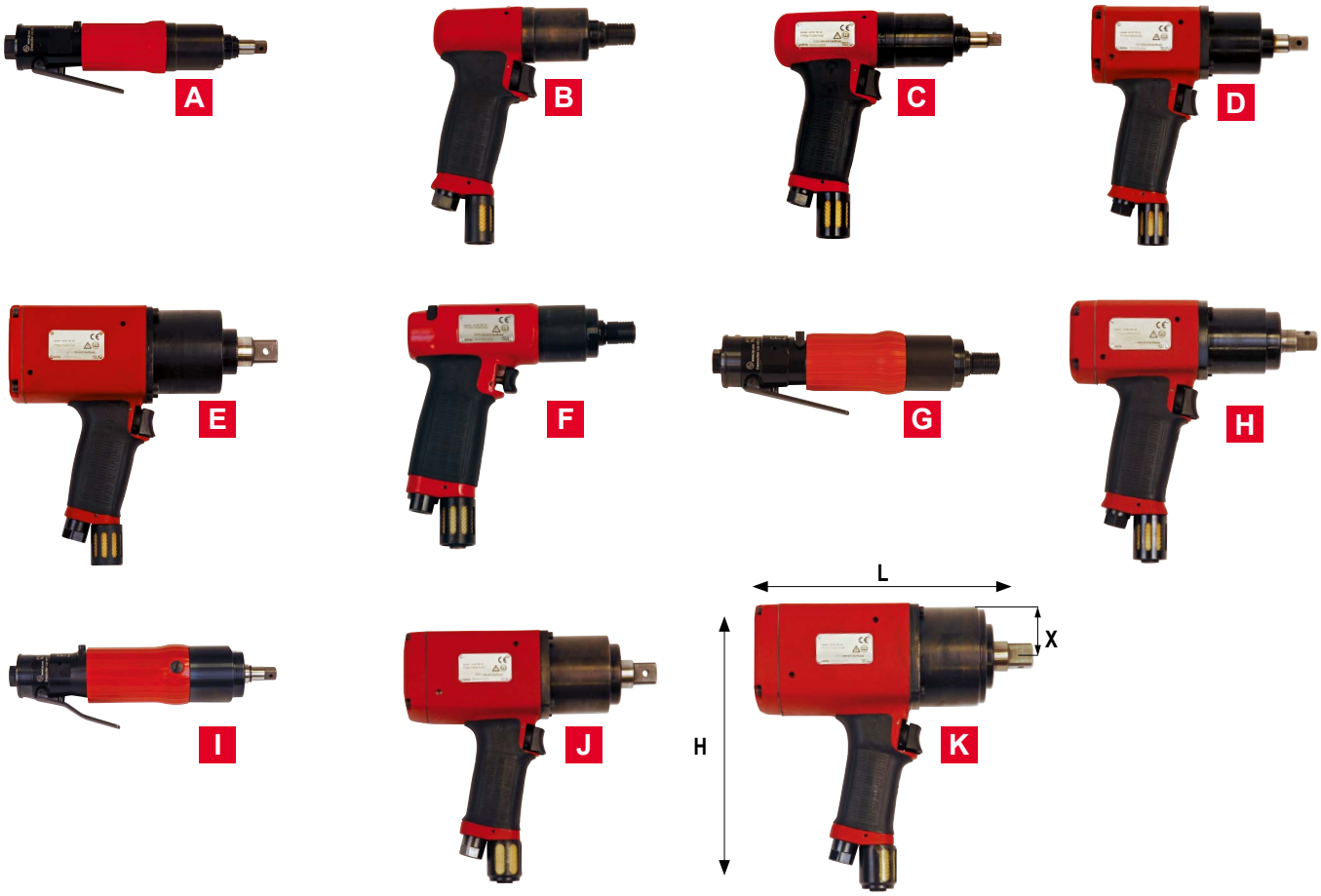
ACCESSORIES INCLUDED

	PART NO.
Pulse Shut Off	
• Cover protection for PTF012/022/024...	541 206 045 0
• Cover protection for PTF035...	541 206 045 1
• Cover protection for PTF060...	541 206 045 2
• Cover protection for PTF085...	541 206 045 3
• Cover protection for PTF130...	541 206 045 4
• Cover protection for PTF165...	541 206 045 5

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Pulse Tools - Non Shut Off and Shut Off range

5 to 450 Nm (3.7 to 332 ft.lb) - 2800 to 10000 rpm



Air Inlet: All models 1/4" BSP, except PT160/240/250/450: 3/8" BSP – NPT optional

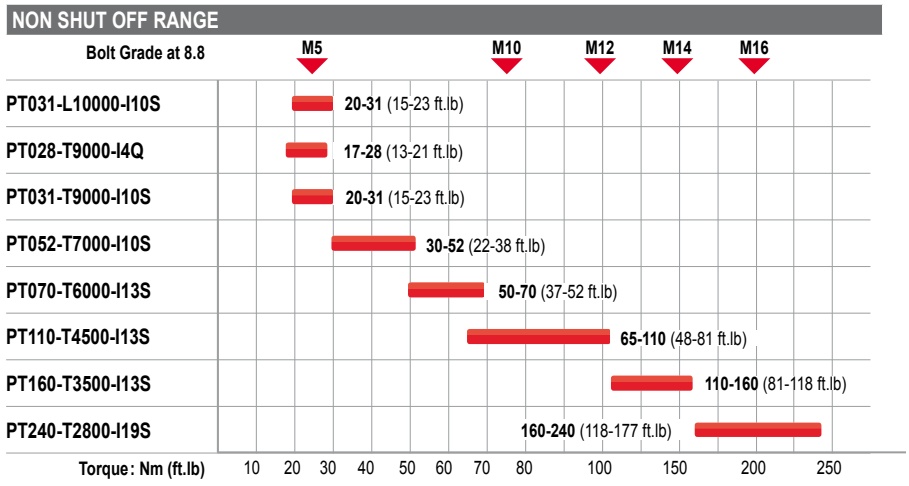
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		DIMENSIONS L		DIMENSIONS X		DIMENSIONS H		WEIGHT		AIR FLOW		HOSE INT. Ø	
			rpm	in.	Nm	ft.lb	mm	in.	mm	in.	mm	in.	kg	lb	l/s	cfm	ø	in.
NON SHUT OFF																		
A	PT031-L10000-I10S	205 147 466 4	10000	3/8 Sq	20-31	15-23	221	8.7	22	0.87	-	-	0.7	1.5	8	17	8	5/16
B	PT028-T9000-I4Q	205 147 789 4	9000	1/4 Hex	17-28	13-21	150	5.9	22	0.87	175	6.9	0.8	1.8	8	17	8	5/16
C	PT031-T9000-I10S	205 147 467 4	9000	3/8 Sq	20-31	15-23	152	6.0	22	0.87	175	6.9	0.8	1.8	8	17	8	5/16
C	PT052-T7000-I10S	205 147 468 4	7000	3/8 Sq	30-52	22-38	174	6.8	23	0.90	175	6.9	1.0	2.0	9	19	10	3/8
D	PT070-T6000-I13S	205 147 469 4	6000	1/2 Sq	50-70	37-52	168	6.6	26	1.02	190	7.5	1.3	2.9	11	23	10	3/8
D	PT110-T4500-I13S	205 147 470 4	4500	1/2 Sq	65-110	48-81	178	7.0	29	1.14	198	7.8	1.6	3.5	12	25	10	3/8
D	PT160-T3500-I13S	205 147 471 4	3500	1/2 Sq	110-160	81-118	188	7.4	34	1.34	209	8.2	2.4	5.3	14	30	13	1/2
E	PT240-T2800-I19S	205 147 472 4	2800	3/4 Sq	160-240	118-177	205	8.1	37	1.46	212	8.3	3.3	7.3	15	32	13	1/2
SHUT OFF																		
F	PT010-T5500-S4Q	205 146 227 4	5500	1/4 Hex	5 -10	3.7-7.4	205	8.1	21	0.80	178	7.0	0.95	2.1	6	13	8	5/16
G	PT010-L5000-S4Q	205 146 225 4	5000	1/4 Hex	5 -10	3.7-7.4	212	8.3	21	0.83	-	-	0.9	1.9	6	13	8	5/16
F	PT014-T6000-S4Q	205 146 228 4	6000	1/4 Hex	8 -14	5.9-10	205	8.1	21	0.83	178	7.0	1.0	2.2	6	13	8	5/16
G	PT014-L6000-S4Q	205 146 226 4	6000	1/4 Hex	8 -14	5.9-10	212	8.3	21	0.83	-	-	0.9	2.0	6	13	8	5/16
H	PT025-T4500-S10S	205 147 462 4	4500	3/8 Sq	13-25	10-18	177	7.0	26	1.02	192	7.6	1.3	2.9	7	15	8	5/16
I	PT025-L4500-S10S	205 147 463 4	4500	3/8 Sq	13-25	10-18	236	9.3	25	0.98	-	-	1.2	2.5	7	15	8	5/16
H	PT035-T6000-S4Q	205 147 790 4	6000	1/4 Hex	20-36	15-26	175	6.9	26	1.02	192	7.6	1.4	3.0	8	17	8	5/16
H	PT040-T6000-S10S	205 146 229 4	6000	3/8 Sq	22-40	16-29	177	7.0	26	1.02	192	7.6	1.4	3.0	8	17	8	5/16
H	PT070-T4000-S13S	205 146 230 4	4000	1/2 Sq	32-70	24-51	192	7.6	29	1.14	200	7.9	1.8	4.0	10	21	10	3/8
H	PT125-T3500-S13S	205 146 231 4	3500	1/2 Sq	62-125	46-92	201	7.9	34	1.34	211	8.3	2.4	5.3	12	25	10	3/8
J	PT250-T4000-S19S	205 147 464 4	4000	3/4 Sq	125-250	92-185	216	8.5	37	1.46	215	8.5	3.3	7.2	20	42	13	1/2
K	PT450-T3000-S19S	205 147 465 4	3000	3/4 Sq	225-450	166-332	202	8.0	42	1.65	229	9.0	4.3	9.5	22	46	13	1/2

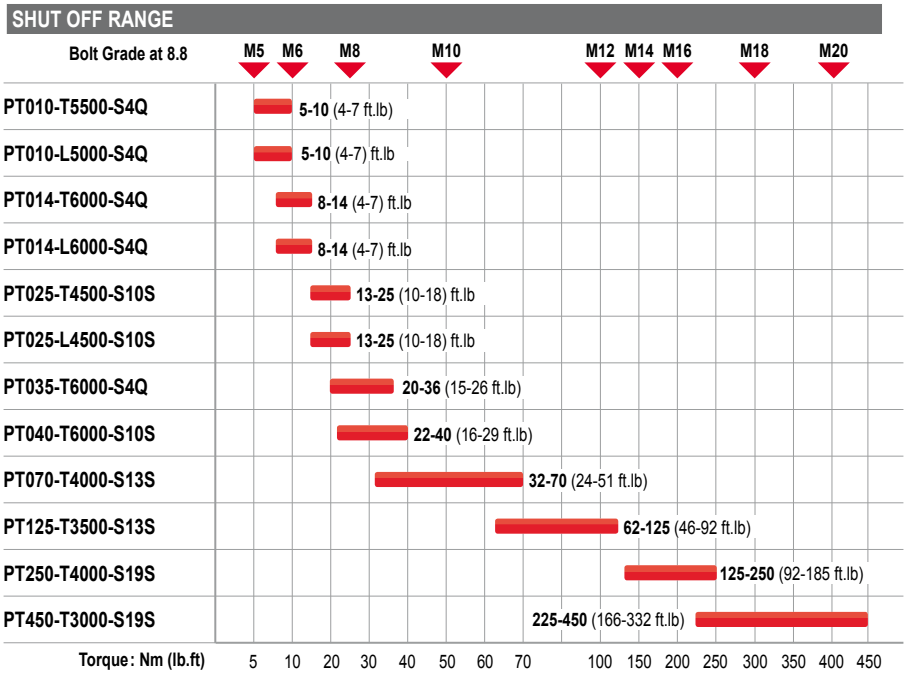
The tool is designed for a working pressure of 6.3 bar 90 PSI.

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Pulse Tools - Tool Selection







Accessories

ACCESSORIES INCLUDED

	PART NO.
• Air Hose nipple	
• **Adjustment screwdriver for all models, except PT031/070/110/PT160/240**	**205 050 137 3**

Pulse Non shut off

• Cover protection for PT028-T9000-I4Q	**205 051 325 3**
• Cover protection for PT031-T9000-I10S	**205 051 325 3**
• Cover protection for PT052-T7000-I10S	**205 051 324 3**
• Cover protection for PT070-T6000-I13S	**205 051 463 3**
• Cover protection for PT110-T4500-I13S	**205 051 329 3**
• Cover protection for PT160-T3500-I13S	**205 051 326 3**
• **Cover protection for PT240-T2800-I19S**	**205 051 327 3**

Pulse Shut off

• **Cover protection for PT010-T5500-S4Q**	**205 051 331 3**
• Cover protection for PT014-T6000-S4Q	**205 051 331 3**
• **Cover protection for PT025-T4500-S10S**	**205 051 328 3**
• Cover protection for PT035-T6000-S4Q	**205 051 328 3**
• Cover protection for PT040-T6000-S10S	**205 051 328 3**
• Cover protection for PT070-T4000-S13S	**205 051 323 3**
• Cover protection for PT125-T3500-S13S	**205 051 464 3**
• Cover protection for PT250-T4000-S19S	**205 051 468 3**
• Cover protection for PT450-T3000-S19S	**205 050 929 3**

OPTIONAL ACCESSORIES

	PART NO.
• Reporting kit for PT010-T/L.. / PT014-T/L.. PT025-T/L.. / PT040-T.. / PT070-T.. / PT125-T..	**205 011 427 2**
• Reporting kit for PT250-T../ PT450-T..	**205 011 428 2**
• Suspension bail for PT031L/010/014/025L	**451463**
• Suspension bail for PT010/014/031/052	**451393**
• Suspension bail for PT025/040/070/110/125T	**459843**
• Suspension bail for PT160/240/250/450T	**205 050 906 3**
• Exhaust hose for PT031L	**452243**
• Exhaust hose for PT010/014/025L	**459813**

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Data Analyzer

Delta 1D / Delta 6D / Delta 7D

This generation of Delta analyzer is the compact portable solution to monitor all types of production tools at just 500g. Combined with standard Desoutter DRT or DST transducers it's capable of calibrating pulse tools, electric nutrunners or torque wrenches. Divided into three models for Torque measurement only (DELTA 1D), Torque & Angle (Delta 6D) and capable of residual torque check and production strategy with DWTA wrench (Delta 7D)

MAIN FEATURES

- Display : Large color screen shows clear test results, Torque & Angle curves. Real time statistics, Tools description and Routes
- Connectivity : Ethernet and USB port for Delta QC software communication and RS232 for CVI II, CVIC II and CVI3 calibration or barcode reader
- Power : Li-Ion high capacity battery of 16 hours of autonomy or external power supply
- Transducer : Standard Desoutter connector for digital transducers. Analog CMD and GSE transducer connection through an adapter
- Barcode (Delta 7D) : Embeddeb Barcode for automatic Pset selection or VIN traceability



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Measurement Unit

Delta 1D / Delta 6D / Delta 7D



MAIN FEATURES	DELTA 1D	DELTA 6D	DELTA 7D
Transducer			
Connection to DRT4, DRT5, DST	✔	✔	✔
Connection to DWT, DWTA			✔
Connection to CMD, GSE or general 19 pins analog transducer	✔	✔	✔
	Through optional analog/digital adapter		
On board functionality			
Wrench test	✔	✔	✔
Nutrunner test	✔	✔	✔
Pulse Tool test	✔	✔	✔
Tools	1	1000	1000
Pset		1000	1000
Integrated Statistic	Min, Max Avg	Cm, Cmk	Cm, Cmk
		(ISO, NF and CNOMO standards)	(ISO, NF and CNOMO standards) + SPC
Residual Check Strategy			✔
Production Strategy			✔
Results	1000	5000	5000
Curve	10	10	10
CVI autocalibration		✔	✔
External Barcode connectivity		✔	✔
Embedded Barcode			✔

MODEL	PART NUMBER	POWER REQUIREMENTS		DIMENSIONS						WEIGHT	
		BATTERY LIFE	CHARGER	DEPTH		WIDTH		HEIGHT			
		hours	Volt	mm	in.	mm	in.	mm	in.	kg	lb
Delta 1D	**615 935 101 0**	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 6D	**615 935 102 0**	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 7D	**615 935 147 0**	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1

All models are supplied with box including Battery, Power Supplier and Delta QC Free Version

ACCESSORIES INCLUDED

	PART NO.
• Delta Battery	**615 936 142 0**
• Universal Power Supplier	**615 936 143 0**





OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Rubber Protection	**615 936 141 0**
•	CMD & ST 4000 Adapter	**615 917 671 0**
•	CMD 5000 Adapter	**615 917 672 0**
•	RS232 Adapter	**615 917 670 0**
•	GSE 2500 Adapter	**615 917 674 0**
•	GSE 8500T Adapter	**615 917 675 0**
•	GSE 8500T/A Adapter	**615 917 676 0**
•	Analog 19 pins Adapter	**615 935 175 0**
2	Delta Demo Case (Empty)	**615 936 140 0**
•	Delta QC Licensed - 1 user	**615 927 651 0**
•	Delta QC Licensed - 5 user	**615 927 652 0**
•	Delta QC Advanced 1 user	**615 927 653 0**
•	Delta QC Advanced 5 user	**615 927 654 0**

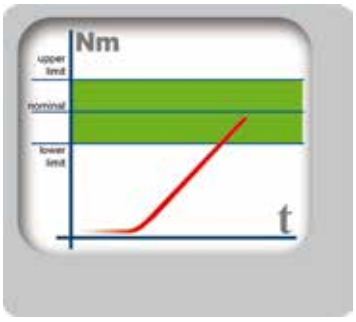
see not included Transducer cables p.137

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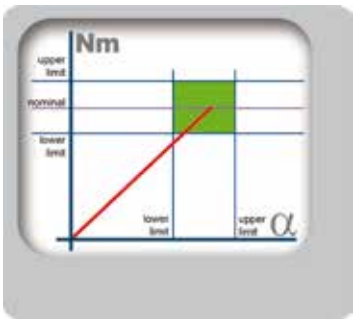
DWTA

Digital Wrench for Torque and Angle Measurement

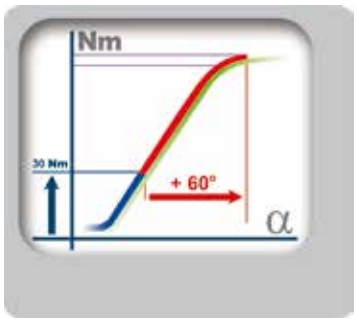
PRODUCTION AND QUALITY strategies: In combination with Delta 7D, the torque and angle wrench for residual automatic torque check and Joint analysis with Yield point detection.



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)



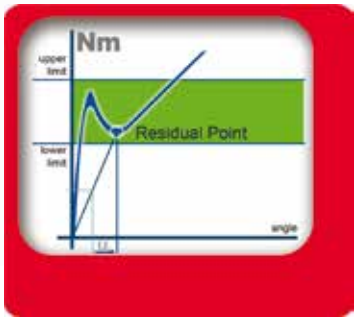
Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position 1 % of torque reading (from 10 % to 100 % of torque range)

DWTA



DWTA

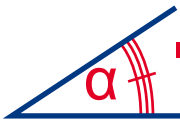
Delta7D



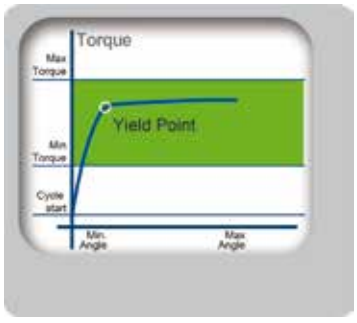
Automatic Residual torque check



Military connector for standard transducer cable



Gyroscope for angle measurement.



Joint analysis

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.	in	mm	in.	kg	lb
DWTA 30	**615 165 760 0**	3-30	2.21	✔	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
DWTA 150	**615 165 761 0**	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
DWTA 400	**615 165 762 0**	40-400	29.5-295	✔	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2

no TAG feature available for DWTA

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Delta Wrench

Digital Wrench for Torque & Angle Measurement

The digital wrench integrates is a unique device and flexible solution for both production and quality strategy in tightening. Delta Wrench provides high accuracy solution for torque controlled joints tightening. Delta Wrench ensures perfect tightening operator independent thanks to automatic PSet selection and double bridge transducer, also introduces a quality strategy with angle measurement and traceability for a perfect quality audit.



Intelligent RFI-TAG for PSet automatic selection

Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position

1 % of torque accuracy along a wide range

USB Port for DELTA QC free software communication for programming 200 predefined PSet or to Export result in XLS report

Standard interchangeable heads

Optional Wireless Communication

Wrench accessories **see page 132**

Ergonomic keyboard to recall the predefined PSet

Backlight RGB colour display for operator guidance plus acoustic buzzer

Embedded high capacity Li-Ion battery

Optional gyroscope for angle measurement

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Delta Wrench



MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.	in	mm	in.	kg	lb
Delta Wrench 30	615 165 771 0	3-30	2.21	✘	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150	615 165 772 0	15-150	11.06-110.6	✘	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 400	615 165 773 0	40-400	29.5-295	✘	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800	615 165 774 0	80-800	59-590	✘	Ø28	Ø1.1	1	1309	51.5	4.7	10.4
Delta Wrench 30-A	615 165 775 0	3-30	2.21	✔	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150-A	615 165 776 0	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 150-A Short	615 165 767 0	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	418	16.5	1.0	2.2
Delta Wrench 200-A	615 165 797 0	20-200	14.75-147.5	✔	14x18	0.55x0.71	1/2	625	24.6	2	4.4
Delta Wrench 400-A	615 165 777 0	40-400	29.5-295	✔	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800-A	615 165 778 0	80-800	59.0-590	✔	Ø 28	Ø 1.1	1	1309	51.5	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version



Li-Ion Battery and battery charge





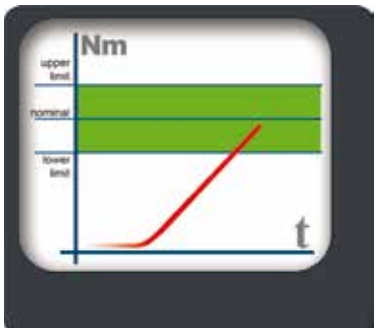
MODEL	PART NUMBER	HEIGHT		LENGTH		WIDTH		WEIGHT	
		mm	in	mm	in	mm	in	gr	lb
Delta Wrench Battery	615 936 150 0	-	-	110	4.33	Ø 22	Ø 8,86	80	0.18
Delta Wrench Battery Charger	615 936 151 0	60	2.36	140	5.51	80	3.15	240	0.53

DELTAQC SOFTWARE	FREE	LICENSED	ADVANCED
PSet programming	✔	✔	✔
Result viewer	✔	✔	✔
Result excel export	✔	✔	✔
Curve viewer		✔	✔
Result Database			✔

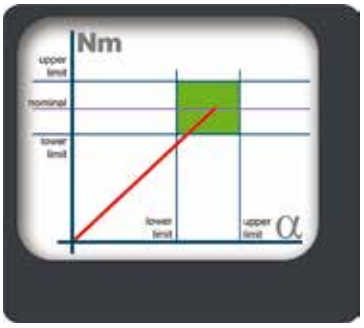
MODEL	PART NUMBER
DeltaQC Licensed 1 user	615 927 651 0
DeltaQC Licensed 5 users	615 927 652 0
DeltaQC Advanced 1 user	615 927 653 0
DeltaQC Advanced 5 users	615 927 654 0

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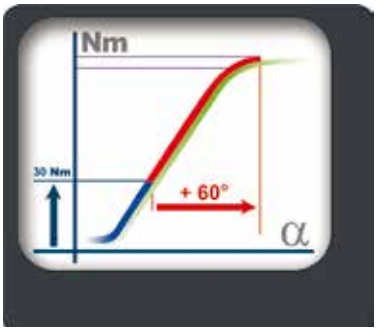
Production Strategies



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)

BENEFITS

- Accuracy for critical tightenings
- Wide torque range to replace click wrenches
- Production data traceability
- Repair station fastening capability
- Difficult access joints tightening
- Re-hit detection
- Low calibration cost
- Back up tool

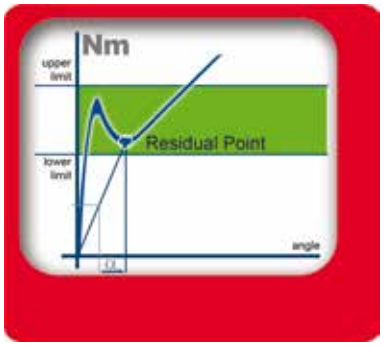


Extension Application

TECHNICAL SPECIFICATION

200 predefined Pset	Pset with T/A limits defined by Delta QC Software
Batch Count	Up to 99
Production Strategies	Torque/Time, Torque & Angle, Torque + Angle CW/CCW Tightenings
Quality Audit Strategy	Peak Torque, Torque plus Angle Automatic residual detection CW/CCW Tightenings
Torque Accuracy	1 % of torque reading +/- 1 digit
Angle Accuracy	+/- 1 %
Battery	Li-Ion Battery
Power Autonomy	up to 8h for stand alone, 5h for wireless communication
USB Communication	Bi-directional communication to Delta QC Software
Results	1000 + 25 curves with Delta Licensed QC
RGB Display	Red Green or Blue backlight
Buzzer	Extension Torque and Angle bending correction
Multi-units	N•m, N•cm, Kgf•cm, Kgf•m, Ozf•in, Lbf•in, Lbf*ft
Languages	French, English, Spanish, Italian, Deutsch, Portuguese
Software	Free Delta QC software to define Pset and downloads results

Quality Strategies



Automatic residual point detection

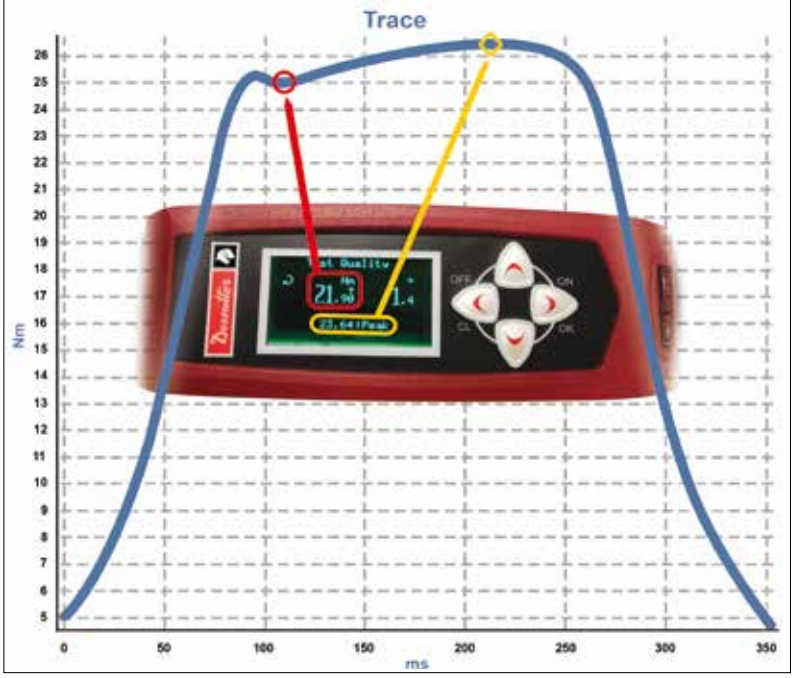
BENEFITS

- Real residual torque value without any special programmimg or setting from operator
- Save time no PC setting are required
- No risk to release an over loaded fastener as mean value is saved
- Residual value operator independent
- Export data for quality & statistic analysis
- Perfect for fast & accurate pulse tools setting

Perfect for joint inspection and auditing Delta Wrench detects automatically the real residual torque of the fastener.

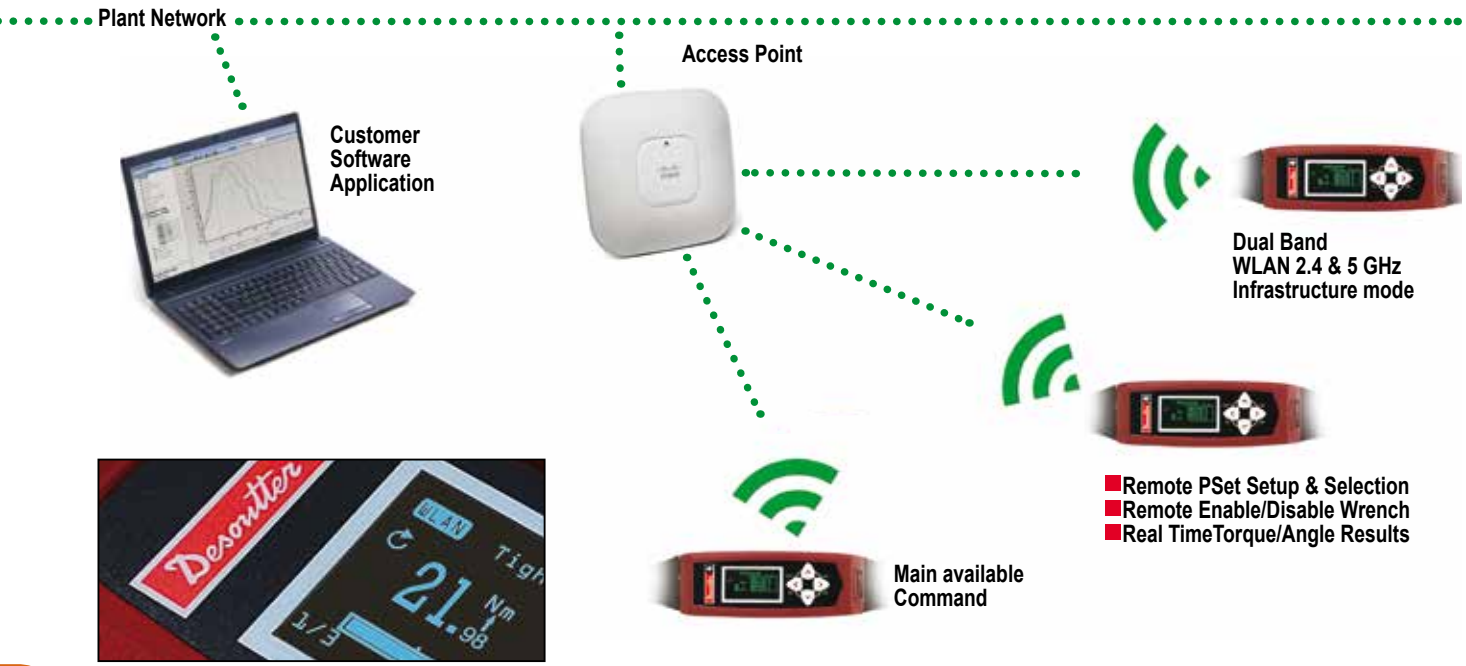
High resolution torque/angle automatic algorithm

Double result detection Residual + Peak Torque



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Delta Wrench WLAN



Thanks to simple bidirectional communication protocol, DeltaWrench Wlan (TCP Client), can be easily interfaced to custom applications (TCP Server), by developing a communication bridge software.



CVI3 communication

BENEFITS

- Real Time communication
- OPEN Protocol or DESOUTTER Protocol (ASCII format) fully available for easy custom integration
- Dual Band Wlan Module fully configurable by DeltaQC Software
- CVI3 communication (PSET Selection, result management)
- CVINET WEB communication through Open Protocol Adapter

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.	in	mm	in.	kg	lb
Delta Wrench 30 Wlan	615 165 781 0	3-30	2.21	✘	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 Wlan	615 165 782 0	15-150	11.06-110.6	✘	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 Wlan	615 165 783 0	40-400	29.50-295.0	✘	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 Wlan	615 165 784 0	80-800	59.00-590.0	✘	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A Wlan	615 165 785 0	3-30	2.21	✔	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A Wlan	615 165 786 0	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A Wlan Short	615 165 789 0	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 200-A Wlan	615 165 769 0	20-200	14.75 - 147.5	✔	14x18	0.55x0.71	1/2	625	24.6	2	4.4
Delta Wrench 400-A Wlan	615 165 787 0	40-400	29.50-295.0	✔	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A Wlan	615 165 788 0	80-800	59.00-590.0	✔	Ø28	Ø 1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version

MODEL	PART NUMBER
Access point Wifi 802.11N - US	615 811 417 5
Access point Wifi 802.11N - Europe	615 811 419 5



MODEL	PART NUMBER
Access Point Wifi7 802.11N - C	615 811 420 5
Access Point Wifi7 802.11N - N	615 811 650 5
Access Point Power Cord UK	615 917 202 0

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E-LIT BOX

FOCUS

1. Wireless communication
2. Fast to connect
3. Safe report
4. Visual feedback



Standard E-LIT Box Communication

CHARACTERISTICS

1 Wireless communication
- Low consumption
- Fast connection
- Long range communication
- Industrial wireless communicatio system (with 802-15-4 Technology)

2 Fast to connect
- Automatic free channel search
- Easy pairing process

3 Safe report
- Memorize up to 25 OK/NOK reports if lost communication
- Possibily to lock if memory full

4 Visual feedback
- Feedback directly on Wrench display
- Wireless communication
- Tightening OK / NOK



Delta Wrench ZigBee

Gyroscope for angle measurement.

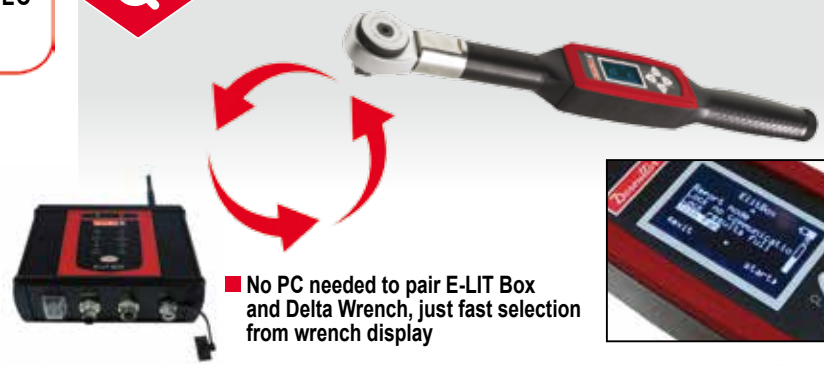


WIRELESS SYSTEM
802-15-4 Standard

8 available outputs including:
- OK
- NOK
- Tool ready
- Tool disable
- Batch complete

4 available inputs including:
- Lock tool
- Unlock tool
- Unlock tool and reset

EASY PAIRING PROCESS



No PC needed to pair E-LIT Box and Delta Wrench, just fast selection from wrench display

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.	in	mm	in.	kg	lb
Delta Wrench 30 ZigBee	**615 165 800 0**	3-30	2.21	✘	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 Zigbee	**615 165 801 0**	15-150	11.06-110.6	✘	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 ZigBee	**615 165 802 0**	40-400	29.50-295.0	✘	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 ZigBee	**615 165 803 0**	80-800	59.00-590.0	✘	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A Zigbee	**615 165 805 0**	3-30	2.21	✔	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A Zigbee	**615 165 806 0**	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A Zigbee Short	**615 165 810 0**	15-150	11.06-110.6	✔	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 400-A ZigBee	**615 165 807 0**	40-400	29.50-295.0	✔	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A ZigBee	**615 165 808 0**	80-800	59.00-590.0	✔	Ø28	Ø1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version

ACCESSORIES FOR ELC TOOLS

	PART NO.
• **E-LIT BOX-V2**	**615 936 310 0**
• **Power supply E-LIT BOX**	**615 927 053 0**

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Delta Wrench Accessories

*End Fittings with embedded RFID TAG**



OPEN END TAG - metric	PART NO.
Drive 9x12 Open End 7 mm TAG	615 936 152 0
Drive 9x12 Open End 8 mm TAG	615 936 153 0
Drive 9x12 Open End 9 mm TAG	615 936 154 0
Drive 9x12 Open End 10 mm TAG	615 936 155 0
Drive 9x12 Open End 11 mm TAG	615 936 156 0
Drive 9x12 Open End 12 mm TAG	615 936 157 0
Drive 9x12 Open End 13 mm TAG	615 936 158 0
Drive 9x12 Open End 14 mm TAG	615 936 159 0
Drive 9x12 Open End 15 mm TAG	615 936 160 0
Drive 9x12 Open End 16 mm TAG	615 936 161 0
Drive 9x12 Open End 17 mm TAG	615 936 162 0
Drive 9x12 Open End 18 mm TAG	615 936 163 0
Drive 9x12 Open End 19 mm TAG	615 936 164 0



RING BOX END TAG - metric	PART NO.
Drive 9x12 Ring Box End 7 mm TAG	615 936 165 0
Drive 9x12 Ring Box End 8 mm TAG	615 936 166 0
Drive 9x12 Ring Box End 10 mm TAG	615 936 167 0
Drive 9x12 Ring Box End 11 mm TAG	615 936 168 0
Drive 9x12 Ring Box End 12 mm TAG	615 936 169 0
Drive 9x12 Ring Box End 13 mm TAG	615 936 170 0
Drive 9x12 Ring Box End 14 mm TAG	615 936 171 0
Drive 9x12 Ring Box End 15 mm TAG	615 936 172 0
Drive 9x12 Ring Box End 16 mm TAG	615 936 173 0
Drive 9x12 Ring Box End 17 mm TAG	615 936 174 0
Drive 9x12 Ring Box End 18 mm TAG	615 936 175 0
Drive 9x12 Ring Box End 19 mm TAG	615 936 176 0
Drive 9x12 Ring Box End 21 mm TAG	615 936 177 0
Drive 9x12 Ring Box End 22 mm TAG	615 936 178 0



FLARED END TAG - metric	PART NO.
Drive 9x12 Flared End 10 mm TAG	615 936 179 0
Drive 9x12 Flared End 11 mm TAG	615 936 180 0
Drive 9x12 Flared End 12 mm TAG	615 936 181 0
Drive 9x12 Flared End 13 mm TAG	615 936 182 0
Drive 9x12 Flared End 14 mm TAG	615 936 183 0
Drive 9x12 Flared End 16 mm TAG	615 936 184 0
Drive 9x12 Flared End 17 mm TAG	615 936 185 0
Drive 9x12 Flared End 18 mm TAG	615 936 186 0
Drive 9x12 Flared End 19 mm TAG	615 936 187 0
Drive 9x12 Flared End 21 mm TAG	615 936 188 0
Drive 9x12 Flared End 22 mm TAG	615 936 189 0
Drive 9x12 Flared End 24 mm TAG	615 936 190 0

OPEN END TAG - inches	PART NO.
Drive 9x12 Open End 1/4" TAG	615 936 229 0
Drive 9x12 Open End 5/16" TAG	615 936 230 0
Drive 9x12 Open End 3/8" TAG	615 936 231 0
Drive 9x12 Open End 7/16" TAG	615 936 232 0
Drive 9x12 Open End 1/2" TAG	615 936 233 0
Drive 9x12 Open End 9/16" TAG	615 936 234 0
Drive 9x12 Open End 5/8" TAG	615 936 235 0
Drive 9x12 Open End 11/16" TAG	615 936 236 0
Drive 9x12 Open End 3/4" TAG	615 936 237 0

RING BOX END TAG - inches	PART NO.
Drive 9x12 Ring Box End 1/4"	615 936 238 0
Drive 9x12 Ring Box End 5/16"	615 936 239 0
Drive 9x12 Ring Box End 3/8"	615 936 240 0
Drive 9x12 Ring Box End 7/16"	615 936 241 0
Drive 9x12 Ring Box End 1/2"	615 936 242 0
Drive 9x12 Ring Box End 9/16"	615 936 243 0
Drive 9x12 Ring Box End 5/8"	615 936 244 0
Drive 9x12 Ring Box End 11/16"	615 936 245 0
Drive 9x12 Ring Box End 3/4"	615 936 246 0
Drive 9x12 Ring Box End 13/16"	615 936 247 0
Drive 9x12 Ring Box End 7/8"	615 936 248 0

FLARED END TAG - inches	PART NO.
Drive 9x12 Flared End 3/8" TAG	615 221 001 0
Drive 9x12 Flared End 7/16" TAG	615 221 002 0
Drive 9x12 Flared End 1/2" TAG	615 221 003 0
Drive 9x12 Flared End 9/16" TAG	615 221 004 0
Drive 9x12 Flared End 5/8" TAG	615 221 005 0
Drive 9x12 Flared End 11/16" TAG	615 221 006 0
Drive 9x12 Flared End 3/4" TAG	615 221 007 0



REVERSIBLE RATCHET TAG	PART NO.
Drive 9x12 Reversible ratchet 1/4" TAG	615 936 191 0
Drive 9x12 Reversible ratchet 3/8" TAG	615 936 192 0
Drive 9x12 Reversible ratchet 1/2" TAG	615 936 193 0



BITS HOLDER TAG	PART NO.
Drive 9x12 Bits Holder 1/4" TAG	615 221 028 0
Drive 9x12 Bits Holder 5/16" TAG	615 221 029 0



BLANK END TAG	PART NO.
Drive 9x12 Blank End TAG	615 936 228 0

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Delta Wrench Accessories

*End Fittings with embedded RFID TAG**







OPEN END TAG - metric	PART NO.
Drive 14x18 Open End 13 mm TAG	**615 936 194 0**
Drive 14x18 Open End 14 mm TAG	**615 936 195 0**
Drive 14x18 Open End 15 mm TAG	**615 936 196 0**
Drive 14x18 Open End 16 mm TAG	**615 936 197 0**
Drive 14x18 Open End 17 mm TAG	**615 936 198 0**
Drive 14x18 Open End 18 mm TAG	**615 936 199 0**
Drive 14x18 Open End 19 mm TAG	**615 936 200 0**
Drive 14x18 Open End 21 mm TAG	**615 936 201 0**
Drive 14x18 Open End 22 mm TAG	**615 936 202 0**
Drive 14x18 Open End 24 mm TAG	**615 936 203 0**
Drive 14x18 Open End 27 mm TAG	**615 936 204 0**
Drive 14x18 Open End 30 mm TAG	**615 936 205 0**
Drive 14x18 Open End 32 mm TAG	**615 936 206 0**
Drive 14x18 Open End 34 mm TAG	**615 936 207 0**
Drive 14x18 Open End 36 mm TAG	**615 936 371 0**
14x18 Open End 41 mm TAG	**615 936 389 0**

RING BOX END TAG - metric	PART NO.
Drive 14x18 Ring Box End 13 mm TAG	**615 936 208 0**
Drive 14x18 Ring Box End 14 mm TAG	**615 936 209 0**
Drive 14x18 Ring Box End 15 mm TAG	**615 936 210 0**
Drive 14x18 Ring Box End 16 mm TAG	**615 936 211 0**
Drive 14x18 Ring Box End 17 mm TAG	**615 936 212 0**
Drive 14x18 Ring Box End 18 mm TAG	**615 936 213 0**
Drive 14x18 Ring Box End 19 mm TAG	**615 936 214 0**
Drive 14x18 Ring Box End 21 mm TAG	**615 936 2150**
Drive 14x18 Ring Box End 22 mm TAG	**615 936 216 0**
Drive 14x18 Ring Box End 24 mm TAG	**615 936 217 0**
Drive 14x18 Ring Box End 27 mm TAG	**615 936 218 0**
Drive 14x18 Ring Box End 30 mm TAG	**615 936 219 0**
Drive 14x18 Ring Box End 32 mm TAG	**615 936 220 0**
Drive 14x18 Ring Box End 34 mm TAG	**615 936 2210**
Drive 14x18 Ring Box End 36 mm TAG	**615 936 222 0**
Drive 14x18 Ring Box End 41 mm TAG	**615 936 223 0**

OPEN END TAG - inches	PART NO.
Drive 14x18 Open End 7/16" TAG	**615 221 008 0**
Drive 14x18 Open End 1/2" TAG	**615 221 009 0**
Drive 14x18 Open End 9/16" TAG	**615 221 010 0**
Drive 14x18 Open End 5/8" TAG	**615 221 011 0**
Drive 14x18 Open End 11/16" TAG	**615 221 012 0**
Drive 14x18 Open End 3/4" TAG	**615 221 013 0**
Drive 14x18 Open End 13/16" TAG	**615 221 014 0**
Drive 14x18 Open End 7/8" TAG	**615 221 015 0**
Drive 14x18 Open End 15/16" TAG	**615 221 016 0**
Drive 14x18 Open End 1" TAG	**615 221 017 0**
Drive 14x18 Open End 1-1/8" TAG	**615 221 018 0**

RING BOX END TAG - inches	PART NO.
Drive 14x18 Box End 1/2" TAG	**615 221 019 0**
Drive 14x18 Box End 9/16" TAG	**615 221 020 0**
Drive 14x18 Box End 5/8" TAG	**615 221 021 0**
Drive 14x18 Box End 11/16" TAG	**615 221 022 0**
Drive 14x18 Box End 3/4" TAG	**615 221 023 0**
Drive 14x18 Box End 13/16" TAG	**615 221 024 0**
Drive 14x18 Box End 7/8" TAG	**615 221 025 0**
Drive 14x18 Box End 15/16" TAG	**615 221 026 0**
Drive 14x18 Box End 1" TAG	**615 221 027 0**







BITS HOLDER TAG	PART NO.
Drive 14x18 Bits Holder 5/16" TAG	**615 221 030 0**

BITS END TAG	PART NO.
Drive 14x18 Blank End TAG	**615 936 226 0**

REVERSIBLE RATCHET TAG	PART NO.
Drive 14x18 Reversible ratchet 1/2" TAG	**615 936 224 0**
Drive 14x18 Reversible ratchet 3/4" TAG	**615 936 225 0**
Drive Ø 28 Reversible ratchet 1" TAG	**615 936 227 0**

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Low Torque Analyzer





Embedded Transducer & Battery

TECHNICAL SPECIFICATION

Torque Transducer	Embedded
Torque Accuracy	1 % of readings
Tools Testing	Torque Wrench, Nutrunner or Pulse Tools
Statistic	Min. Max, Average, Standard Deviation
Results Storage	1000 + 10 curves with DeltaQC Licenced
Multi-units	N.m, Kg.m, Kg.cm, Oz.in, Lb.in, Lb.ft, N.cm
Display	Red, Green, Blue blacklight
Power Supply	Embedded Battery External power supply
Battery Autonomy	Up to 12 hours
Languages	French, English, Spanish, Italian, Deutsch, Portuguese
Software	Free Delta QC Software to export by USB result

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Alpha Low Torque Analyzer

MAIN FEATURES

- Alpha D Series is designed to monitor and collect torque check results from screwdrivers, torque wrenches or click wrenches.
- Ideal to tune the tools thanks to real time statistics on color display and high capacity torque results storage.
- Traceability with included software result acquisition with time stamp, including PDF or XLS reports.
- Three models with embedded transducer to cover torque range from 0,1 to 16 Nm. All models are provided with two included joint simulators to test nutrunner according to different joint stiffness condition.



- Backlight RGB color display with acoustic buzzer
- Hard & Soft Joint Simulator

MODEL	PART NUMBER
DJS for Alpha_D1 Soft	**615 936 120 0**
DJS for Alpha_D1 Hard	**615 936 121 0**
DJS for Alpha_D5 Soft	**615 936 122 0**
DJS for Alpha_D5 Hard	**615 936 123 0**
DJS for Alpha_D16 Soft	**615 936 124 0**
DJS for Alpha_D16 Hard	**615 936 125 0**
Universal Power Supplier	**615 936 143 0**

MODEL	PART NUMBER	P. CHARGER	TORQUE RANGE		DEPTH		WIDTH		HEIGHT		WEIGHT	
		volts	Nm	in. - lb	mm	in.	mm	in.	mm	in.	kg	lb
Alpha D1	**615 935 140 0**	110/240V	0.1 - 1	0.88 - 8.85	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D5	**615 935 141 0**	110/240V	0.5 - 5	4.42 - 44.25	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D16	**615 935 142 0**	110/240V	1.6 - 16	14.1 - 141.6	106	4.17	180	7.09	70	2.76	0.95	2.1

All models are supplied with external power supply, suitable hard and soft joint simulators and Delta QC Software

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Digital Rotary Transducers

Torque

TORQUE ROTARY TRANSDUCER :

The Rotary Torque Transducer DRT4 is designed to measure the torque output of any non-impact assembly tool. The transducer is suitable for use with impulse type assembly tools brushes with minimal maintenance requirements.



BENEFITS

- Automatic recognition thanks to internal memory chip storing main data values eliminating any setting mistakes and time losses.
- High reliability due to immunity from external noise thanks to digital communication.
- Communication to data analyzer not sensitive to the cable length.
- Long life durability thanks to industrial design from transducer to housing.

FEATURES

- Torque range from 0,2 to 10000 Nm (0.15 to 7375 ft.lb).
- Strain gauges transducer : - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features : - type of transducer - sensitivity nominal load - serial number.

MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
DRT4		Nm	ft lb	
DRT 4 H 2	**615 165 209 0**	0.2 - 2	0.15 - 1.5	Hex ¼"
DRT 4 H 5	**615 165 210 0**	0.5 - 5	0.37 - 3.7	Hex ¼"
DRT 4 H 20	**615 165 211 0**	2 - 20	1.47 - 14.7	Hex ¼"
DRT 4 Sq 20	**615 165 212 0**	2 - 20	1.47 - 14.7	Sq ¼"
DRT 4 Sq 25	**615 165 213 0**	2.5 - 25	1.84 - 18.4	Sq ⅜"
DRT 4 Sq 75	**615 165 214 0**	7.5 - 75	5.53 - 55.3	Sq ⅜"
DRT 4 Sq 180	**615 165 215 0**	18 - 180	13.2 - 132	Sq ½"
DRT 4 Sq 500	**615 165 216 0**	50 - 500	36.8 - 368	Sq ¾"
DRT 4 Sq 1400	**615 165 217 0**	140 - 1400	103.2 - 1032	Sq 1"
DRT 4 Sq 3000	**615 165 536 0**	300 - 3000	221.1 - 2211	Sq 1-½"
DRT 4 Sq 5000	**615 165 540 0**	500 - 5000	368.5 - 3685	Sq 1-½"
DRT4 Sq 10000	**615 935 164 0**	1000 - 10000	736.6 - 7375	Sq 1-½"

**Note : for pulse tool test - due to pulse peak overtorque - DRT max torque range is 30 % lower than nominal.*

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Digital Rotary Transducers & Accessories

Torque & Angle

A version DRT5 is available with an angle measurement encoder which allows with a DELTA 6D or DELTA 7D, the measurement of the angle of rotation in addition to torque.



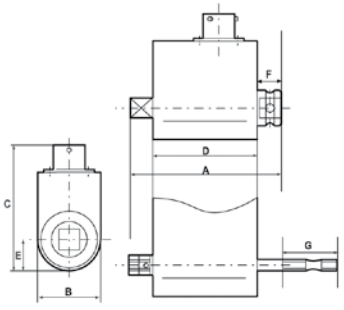
MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
DRT5		Nm	ft lb	
DRT 5 H 2	**615 165 218 0**	0.2 - 2	0.15 - 1.5	Hex ¼"
DRT 5 H 5	**615 165 219 0**	0.5 - 5	0.37 - 3.7	Hex ¼"
DRT 5 H 20	**615 165 220 0**	2 - 20	1.47 - 14.7	Hex ¼"
DRT 5 Sq 20	**615 165 221 0**	2 - 20	1.47 - 14.7	Sq ¼"
DRT 5 Sq 25	**615 165 222 0**	2.5 - 25	1.84 - 18.4	Sq ⅜"
DRT 5 Sq 75	**615 165 223 0**	7.5 - 75	5.53 - 55.3	Sq ⅜"
DRT 5 Sq 180	**615 165 224 0**	18 - 180	13.2 - 132	Sq ½"
DRT 5 Sq 500	**615 165 225 0**	50 - 500	36.8 - 368	Sq ¾"
DRT 5 Sq 1400	**615 165 226 0**	140 - 1400	103.2 - 1032	Sq 1"
DRT 5 Sq 5000	**615 165 780 0**	500 - 5000	368.5 - 3685	Sq 1-½"

**Note: for pulse tool test - due to pulse peak overtorque - DRT max torque range is 30 % lower than nominal.*

FEATURES

- Torque range from 0.2 to 5000 Nm (0.15 to 3685 ft.lb).
- Angle counting system 0.35° resolution.
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features: - type of transducer - sensitivity nominal load - serial number.

SAME SIZE FOR TORQUE OR TORQUE & ANGLE TRANSDUCER														
OUTPUT	A		B		C		E		H		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Hex ¼"	116	4.56	31	1.22	71.9	2.83	56	2.2	15.5	0.61	39	1.53	25.5	1
Sq ¼"	71.5	2.81	31	1.22	71.9	2.83	56	2.2	15.5	0.61	6	0.24		
Sq ⅜"	77	3.03	31	1.22	71.9	2.83	56	2.2	15.5	0.61	8	0.31		
Sq ½"	87	3.42	42	1.65	82.9	3.26	58	2.28	21	0.83	12	0.47		
Sq ¾"	106	4.17	52	2.05	92.9	3.66	66	2.60	26	1.02	21	0.83		
Sq 1	125	4.92	65	2.56	104.9	4.13	73	2.87	32.5	1.28	29	1.14		
Sq 1-½"	165	6.5	106	4.17	148.5	5.85	88	3.46	53	2.09	35.2	1.39		



TRANSDUCER CABLES

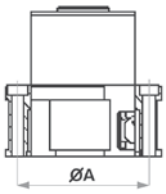
MODEL	PART NUMBER	DESCRIPTION
2m (78.7") - 10 pins	**615 917 430 0**	for DST/DRT - All Delta models
2m (78.7") spiral - 10 pins	**615 917 432 0**	for DST/DRT - All Delta models
5m (196.8") - 10 pins	**615 917 433 0**	for DST/DRT - All Delta models

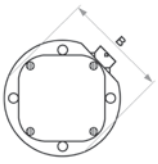
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DST - Digital Static Transducers

Designed for testing wrenches, click wrenches or for tightening tools where rotary action is not desired during measurement. In the case of a Shut-Off tool test a joint simulator as an accessory is required. Torque Accuracy : 0.35 % of Torque Reading.









MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE	DIMENSIONS Ø A		DIMENSIONS Ø B		WEIGHT	
		Nm	lb	in	mm	in	mm	in	kg	lb
DST 0.5 Nm - 13	615 165 537 0	0.05-0.5	0.04-0.4	1/2	81	3.19	91	3.58	2.2	5.1
DST 2 Nm - 13	615 165 532 0	0.2-2	0.15-1.5	1/2	81	3.19	91	3.58	2.2	5.1
DST 5 Nm - 13	615 165 533 0	0.5-5	0.37-3.7	1/2	81	3.19	91	3.58	2.3	5.1
DST 10 Nm - 20	615 165 534 0	1-10	0.74-7.4	3/4	86	3.38	93	3.66	3.1	6.8
DST 30 Nm - 20	615 165 535 0	3-30	2.21-22	3/4	89	3.50	96	3.78	3.4	7.5
DST 80 Nm - 25	615 165 538 0	8-80	5.89-59	1	108	4.25	116	4.57	5.8	12.8
DST 200 Nm - 25	615 165 539 0	20-200	14.7-147	1	108	4.25	116	4.57	5.8	12.8
DST 500 Nm - 32	615 165 541 0	50-500	36.8-368	1-1/4	133	5.24	144	5.67	11.8	26.0
DST 1000 Nm - 32	615 165 542 0	100-1000	73.7-737	1-1/4	133	5.24	144	5.67	11.9	26.2
DST 2000 Nm - 32	615 165 543 0	200-2000	147.4-1474	1-1/2	133	5.24	144	5.57	12.0	26.4

DSA - DELTA STATIC TRANSDUCERS ACCESSORIES

MODEL	PART NO.
3/4" M-1/4" F	615 397 205 0
3/4" M-3/8" F	615 397 206 0
1" M-1/2 " F	615 397 207 0
1"1/4 M-1/2 " F	615 397 208 0
1" 1/4 M-3/4"F	615 397 209 0
1/4" F-1/4" F	615 397 210 0
3/8" F-3/8" F	615 397 211 0
1" M-3/4" F	615 936 110 0

MODEL	PART NO.
1/2 " M -3/8" F	615 936 111 0
1/2 " F-3/8" F	615 936 112 0
1/2 " M-1/2 "F	615 936 113 0
1"1/4 M-3/4" F	615 936 114 0
1/4" F-3/8" F	615 936 115 0
1" 1/4 M-1" F	615 936 116 0
1" F-1" F	615 936 117 0

MODEL	PART NO.
HEX 1/4" M-1/4"F	615 936 118 0
HEX 1/4" M-3/8"F	615 936 119 0
1" F-3/4" F	615 936 126 0
3/4" F-1/2 " F	615 936 130 0
1" 1/2 F-1" 1/2 F	615 936 131 0
1/2 " F-1/2 " F	615 165 573 0
3/4" F-3/4" F	615 165 576 0



DJS - Digital Joint Simulator

A wide range of mechanical joint simulators are available to reproduce the joint behavior ;
installing the joint simulator on a transducer allows you to test a tool in the same real working conditions
Each joint simulator reproduces a specific stiffness as described in its torque/angle characteristics
For each capacity, there are two versions : one reproducing a softer joint and one reproducing a harder joint



MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE		COLOUR INSIDE	COLOUR OUTSIDE	WEIGHT	
		Nm	lb	in	in			kg	lb
DJS for DST 2 Soft	615 165 529 0	2	1.5	1/2	Hex1/4	Yellow	Yellow	0.12	0.26
DJS for DST 2 Hard	615 165 530 0	2	1.5	1/2	Hex 1/4	Yellow	Black	0.12	0.26
DJS for DST 5 Soft	615 165 531 0	5	3.7	1/2	Hex 1/4	Green	Yellow	0.12	0.26
DJS for DST 5 Hard	615 165 571 0	5	3.7	1/2	Hex 1/4	Green	Black	0.12	0.26
DJS for DST 10 Soft	615 165 574 0	10	7.4	3/4	3/8	Red	Yellow	0.64	1.41
DJS for DST 10 Hard	615 165 575 0	10	7.4	3/4	3/8	Red	Black	0.64	1.41
DJS for DST 30 Soft	615 165 577 0	30	22	3/4	3/8	Blue	Yellow	0.65	1.43
DJS for DST 30 Hard	615 165 579 0	30	22	3/4	3/8	Blue	Black	0.65	1.43
DJS for DST 80 Soft	615 165 584 0	80	59	1	1/2	Purple	Yellow	2.50	5.51
DJS for DST 80 Hard	615 165 587 0	80	59	1	1/2	Purple	Black	2.50	5.51
DJS for DST 200 Soft	615 165 588 0	200	147	1	1/2	Grey	Yellow	2.60	5.73
DJS for DST 200 Hard	615 165 589 0	200	147	1	1/2	Grey	Black	2.60	5.73
DJS for DST 500 Soft	615 165 590 0	500	369	1-1/4	3/4	Black	Yellow	5.00	11.0
DJS for DST 500 Hard	615 165 591 0	500	369	1-1/4	3/4	Black	Black	5.00	11.0
DJS for DST 1000	615 165 572 0	1000	737	1-1/4	1			10.3	22.7
DJS for DST 2000	615 936 137 0	2000	1475	1-1/2	1			14.1	28.8

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Calibration Bench

EMBEDDED TRANSDUCERS :

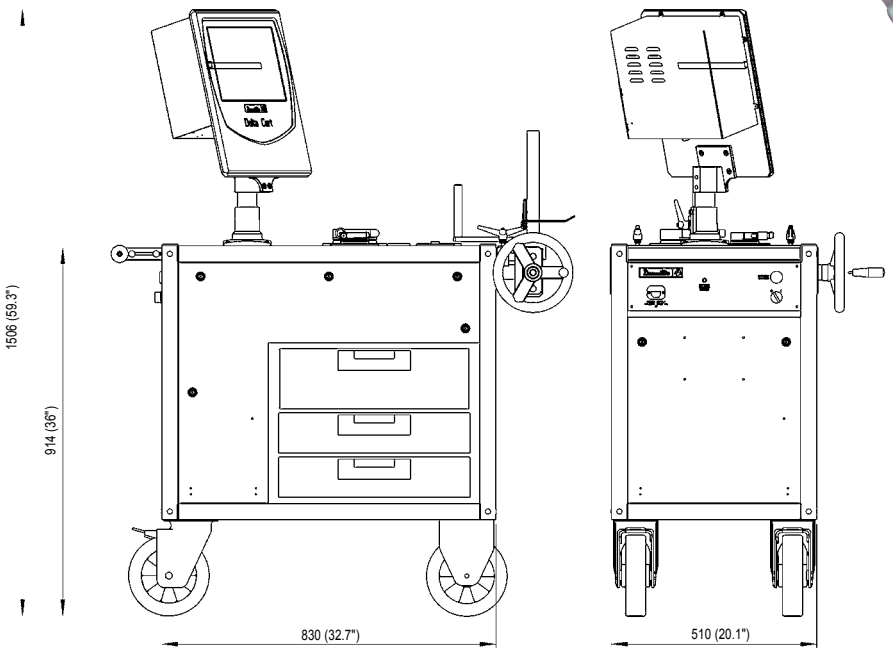
Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines. Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes.

■ Delta Cart offers a wide torque range since it can be configured up to 4 static transducers to cover from 0.2 Nm to 1 000 Nm (0.15 to 738 ft.lb) in a very compact dimensions (510mm width), making the Delta Cart the ideal solution for tool testing in assembly production lines.





■ Embedded PC equipped with wide 12" color touch screen lets operators to start tool testing in a few seconds and few steps.



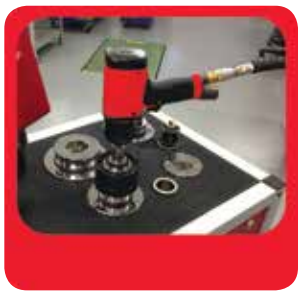
■ Delta Cart includes all adapters, reaction bars and suitable joint similators. Optional ISO RIG for torque wrench to eliminate operator influence during calibration, reducing efforts for high torque range.

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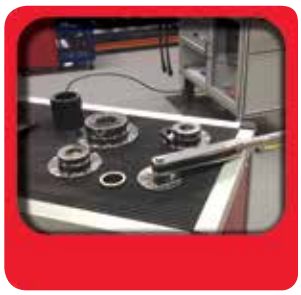
Delta Cart Tool Calibration

EMBEDDED TRANSDUCERS:
Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes


Electric and Pneumatic Nutrunner


Shut off and non shut off Pulse Tool


Torque wrench


Click wrench

The Delta Cart is able to follow your tools during the complete life span: by performing capacity test (Cm/Cmk) before tool is introduced into production, or monitoring tool performance during production assembly process by performing Statistic Process Control (SPC) test



TECHNICAL FEATURES

- Configurable torque range from 1 Nm to 2000Nm
- Torque reaction bar and joint simulator included
- External DRT communication for in-line calibration
- Angle Strategy with external DRT5
- CVI2 and CVI3 autocalibration
- Double reading calibration with automatic deviation check

Embedded Software with local tool DB (SQL Server) containing all Tool of the line including:

- **Calibration STATUS**



- **Cm/Cmk Reports**



- **Next Calibration**
- **X/R Charts**



- PST High accuracy static transducers with locking system specially designed for pulse tool calibration
- ISO RIG
  System for torque wrench calibration

CLIENT - SERVER Architecture

- Ideal for > 1 cart management
- All Calibration data always synchronized with unique Server database
- Fast Ethernet communication

ROUTE MANAGEMENT

- Send to Delta Cart just the Tool to be tested

SOFTWARE FEATURES	
Torque Wrench, Electric or Pneumatic Nutrunner Test, Pulse Test Cm/Cmk - ISO 3534	Local Test Database up to 30000 Tests - Setting: Nominal Min Max Torque, unit of measure, Test Id, Test Description, Transducer number, Timeout setting Cm/Cmk, min, max, average, sigma
ISO 6789 - ISO 5393	Automatic test report
Statistic Control - ISO 8258 Print	X/R Charts for trend control Direct Printing from Delta Cart PC software
Export Curve	Certificate export to PDF or XLS Torque/Time or Torque/Angle with external DRT5
Barcode Configurable for each test	External USB N.m - gf.cm - Kgf.cm - kgf.m - ozf.in - lbf.in - lbf.ft
Languages	English, French, Italian, German, Russian

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Delta QC Software

DELTA QC LICENSED

The Delta QC software is the common software platform for all Delta QC measurement equipment. Included features are programming, results and curve viewer ensuring production data traceability Statistic machine capability tool or SPC are also ensured thanks to local database available in the Advanced version



MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
Delta D			
Pset programming	✔	✔	✔
Tool Definition	✔	✔	✔
Route Definition		✔	✔
Transducer Definition	✔	✔	✔
Pset Database		✔	✔
Tool Database		✔	✔
Route Database		✔	✔
Statistic (online only)		✔	✔
Result viewer	✔	✔	✔
Result excel export	✔	✔	✔
Curve viewer		✔	✔
Curve excel, JPEG export		✔	✔
Curve comparison		✔	✔
RESULT Database			✔
Curve Database			✔
Offline statistic			✔

MODEL	PART NUMBER
Delta QC Licensed 1 User	**615 927 651 0**
Delta QC Licensed 5 User	**615 927 652 0**
Delta QC Advanced 1 User	**615 927 653 0**
Delta QC Advanced 5 User	**615 927 654 0**

Delta QC Advanced

Advanced version provides a local result database and offline programming.
All results, curves and statistics are available for review, export and reporting in both on line and off line mode. All Tools, Status and Pset are always available in the local SQL DB



MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
Delta Wrench			
Pset programming	✔	✔	✔
Result viewer	✔	✔	✔
Result excel export	✔	✔	✔
PSet Database		✔	✔
Curve viewer		✔	✔
Result Database			✔
Delta Cart			
Pset programming			✔
Pset Database			✔
Result viewer			✔
Result excel export			✔
Result Database			✔
Offline statistic			✔

Delta QC FreeVersion

Delta Wrench and Alpha D product range are supplied with the Delta QC software Without any registration the Delta QC is able to program Delta Wrench, Delta D and Alpha D, download results, export to excel and print

MAIN FUNCTIONS	FREE	LICENSED	ADVANCED
ALPHA D			
Result viewer	✔	✔	✔
Result excel export	✔	✔	✔
Curve viewer		✔	✔

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Specific Nutrunners and Spindles



Specific nutrunners
- Flush socket
- Crowfoot (open or close ended)
- Hold and Drive
- Crowfoot Hold and Drive
- Insulated
- 2 output shafts
- With multiplier
- Quick Change

Specific spindles
- U-Shape
- Specific output shaft
- Second torque transducer

Specific reaction bars

AND MUCH MORE ON REQUEST !

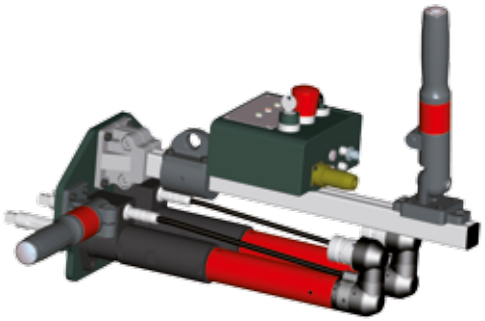
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Multiplus











PART NO.	DESCRIPTION	
615 396 875 0	Handle start horizontal	
615 396 876 0	Handle start vertical	
615 396 877 0	Handle support cpte	
615 396 878 0	Handle reverse	
615 398 135 0	2 additional buttons kit	
615 398 136 0	1 LED + 1 additional button kit	

Options
- Suspension (cable balancer or cylinder)
- Transducer holders
- Variable center distance
  (manual, automatic by cylinder or motorized)

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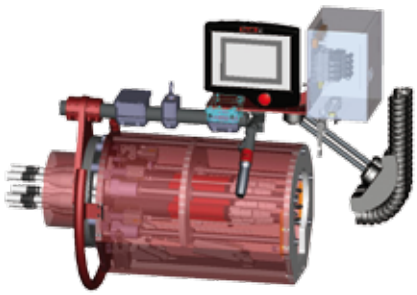
Customized Machine

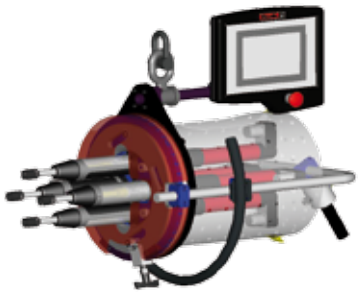
Single spindle, Multi spindles, Manual or automatic center distance adjustment



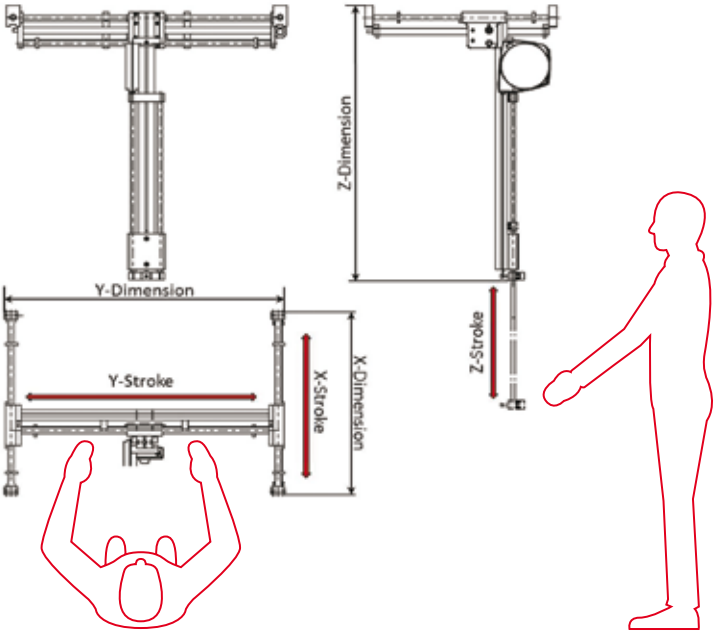


- Standard build components
- Increased custumer configuration
- Simplified maintenance
- Proven solution
- Shorter lead time
- Improved ergonomics





ROLLEX











DESCRIPTION	UNIT	TORQUE		
Maximum Torque	Nm (ft.lb)	30 (22.1)	60 (44.2)	90 (66.4)
X-Stroke (min-max)	mm (in.)	250-450 (every 50) 9.8-17.7 (every 1.97)	250-450 (every 50 9.8-17.7 (every 1.97)	250-450 (every 50) 9.8-17.7 (every 1.97)
Y-Stroke (min-max)	mm (in.)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)
Z-Stroke (min-max)	mm (in.)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)
X-Dimensions	mm (in.)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)
Y-Dimensions	mm (in.)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)
Z-Dimensions	mm (lin.)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)
Maximum Thightening head weight	kg (lb)	20 (44.1)	25 (55.1)	25 (55.1)

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Arms and Torque Tubes

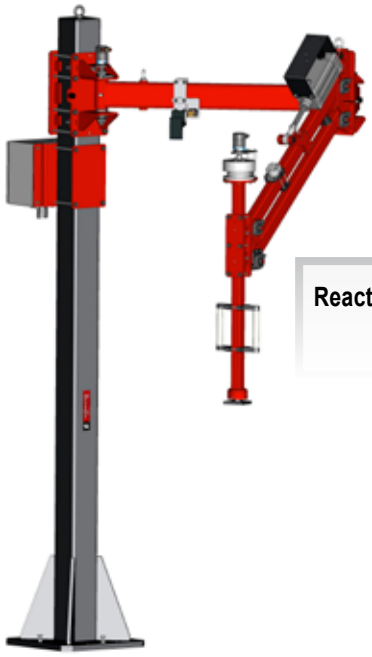
desoutter.info/arms-video

Torque Tubes
- Aluminium (0-250 Nm) (0-185 ft.lb)
- Steel (250-2000 Nm) (185-1480 ft.lb)
- Balancer or pneumatic cylinder suspension

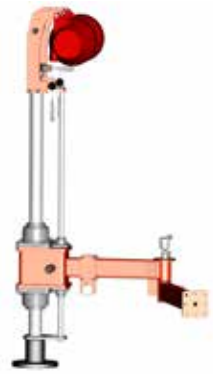








Reaction Arms





300-600-1000-2000 Nm
(221-442-737-1475 ft.lb)
Pneumatic cylinder suspension
Radius 1600 to 4000 mm (5.25 to 13.12 ft)

175 Nm (129.5 ft.lb)
Balancer suspension
Radius 1000 mm (3.28 ft)

150 Nm (111 ft.lb)
Balancer suspension
Radius 1200 to 2000 mm (3.94 to 6.56 ft)

OPTIONS

Torque Tubes options
- Controller and accessories stand
- Parking position sensor
- Encoder
- Pneumatic suspension
- Balancers suspension
- Trolley for rails mounting

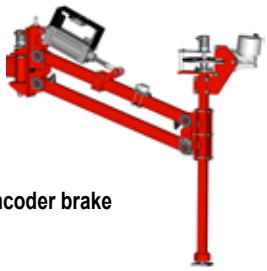
Arms options
- Controller and accessories stand
- Parking position sensor
- Encoder (possible on each axis)
- Rotating pillar
- Brakes





Controller support





Encoder brake

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Accessories and Options

Tool holders

Fixed tool holder



X-Rotating tool holder



Indexed X-Rotating tool holder



Z-Rotating tool holder



Indexed Z-Rotating tool holder





Y-Rotating tool holder



Indexed Y-Rotating tool holder



CVI3 HMI & Positioning System

CVI3 HMI

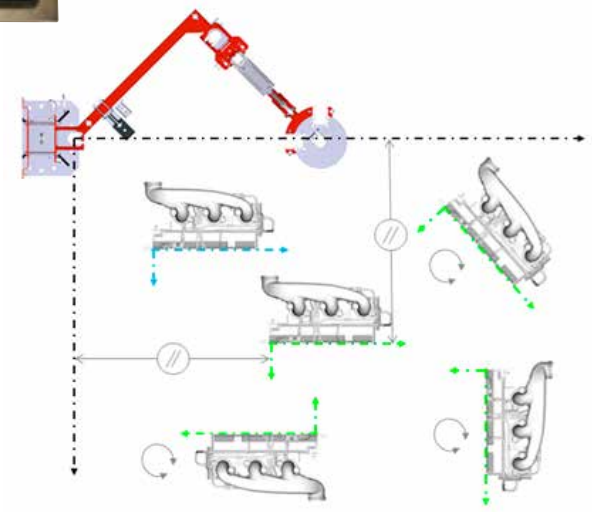
- Standard or specific 4", 7" and 8"
- PC or non PC based
- Plastic or stainless steel enclosure
- From basic input keypad to CVI Adavanced HMI



CVI3 Positionning System

can be used in many different cases:

- DSM Arms, D53 Linear and Folded arms, TRA or special Arms
- Based on connected encoders, positioning system permit to contol & guaranty every tightening in order to prevent to forget some bolts or to tighten a bolt already tightened
- Controlled tightening system
- Standard, "Relative X & Y" or "Relative X & Y + Z Rotating" mode



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Customized Solutions

CONTROLLER STAND

- 1 Controller CVI3 and accessories or 2 controllers
- 1 Controller Twin CVI3 and accessories or 2 controllers
- Multi CVIL2 - Multi CVI3 - Retractable controller stand
- Different options and cable management included





SOCKET TRAY AND HMI SUPPORT

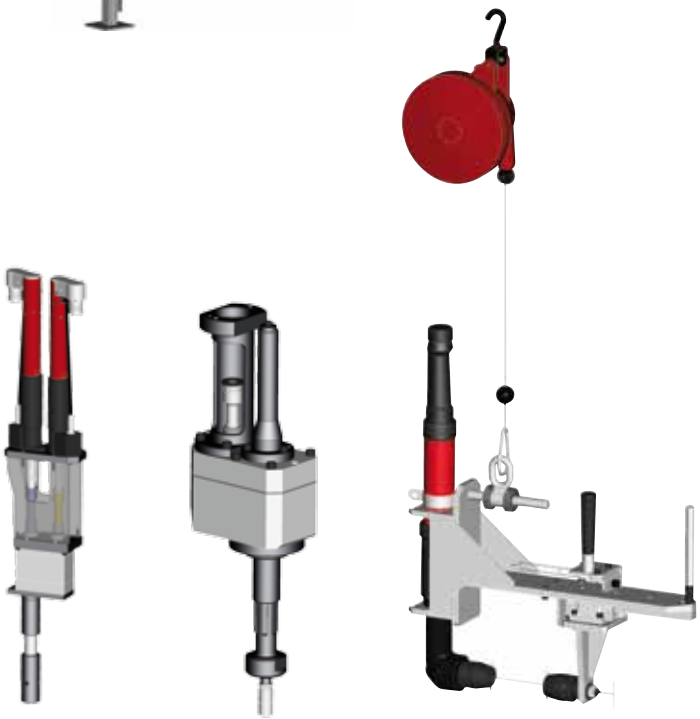




SPECIAL FUNCTIONS:

- Trombons (vertical and horizontal)
- Special gear boxes simple or with Hold and Drive
- Special gear boxes with 2 spindles





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Other Customized Solutions







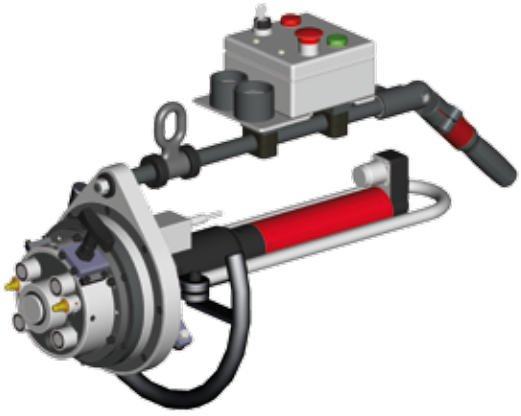
CUSTOMIZED SOLUTIONS

- 1 spindle with electromagnet and reaction pin with 2 center distances
- Special multi spindle with orientation, center distance adjustment, suspension with brake, ...
- Trolley and arms on trolley

AND MUCH MORE ON REQUEST !







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Screwfeeder Solutions - Handheld & Fixtured units

HST - TELESCOPIC HANDHELD UNIT

- High Productivity
- Light and Compact
- Easy to use/ Easy to maintain
- Push Start System



HSF - ADVANCED HANDHELD UNIT

- High performance rate
- Protuding system (retention in jaws)
- Easy to use/ Easy to maintain
- Optional Advanced Nozzle with swivelling arm



SEL/SRL – STATIONARY UNITS

- Simple & flexible
- Dedicated solution robot with SRL / MTB
- Easy to integrate / Easy to maintain
- SEL with 2 strokes / SRL with 1 stroke



	HST	HSF	SEL	SRL
Type	Hand held	Hand held	Fixture	Fixture
Start	Push	lever	Remote	Remote
Stroke	Up to 78 mm	Up to 110 mm	Up to 80/180 mm	Up to 180 mm
Torque	Up to 10 Nm	Up to 15 Nm	Up to 100 Nm	Up to 100 Nm
Pneumatic & Electric Tools	✓	✓	✓	✓
Screw retention in jaws	✗	✓	✗	✗
Recommended installation	Balancer or Arm	Arm	Fixture Installation	Fixture Installation Robot

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ZSE – Modular Bowls feeders





Our bowl units have been strongly designed for a quick and easy access to the critical elements, improving effective efficiency and reducing maintenance time



CVI3 controller can control the complete screwfeeding system using CVI logix standard program"

Accessories

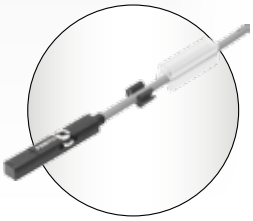
SENSORS



Screw present sensor
Screw feeding detection on hose



Home sensor
Home position detection of cylinders on SEL/SRL



Depth sensor
Depth tightening detection when required by application



Escapement sensors
Control/Secure escapement mechanism

BOWL OPTIONS



Control level
Detect and inform when the bowl is empty



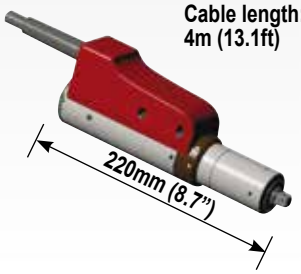
Hopper
increase your bowl capacity

LINEAR ARMS



Fixtured electric spindles ERF

For your assembly applications, Desoutter offers a range of fixtured electric spindles, transducerized or current controlled with integrated cable



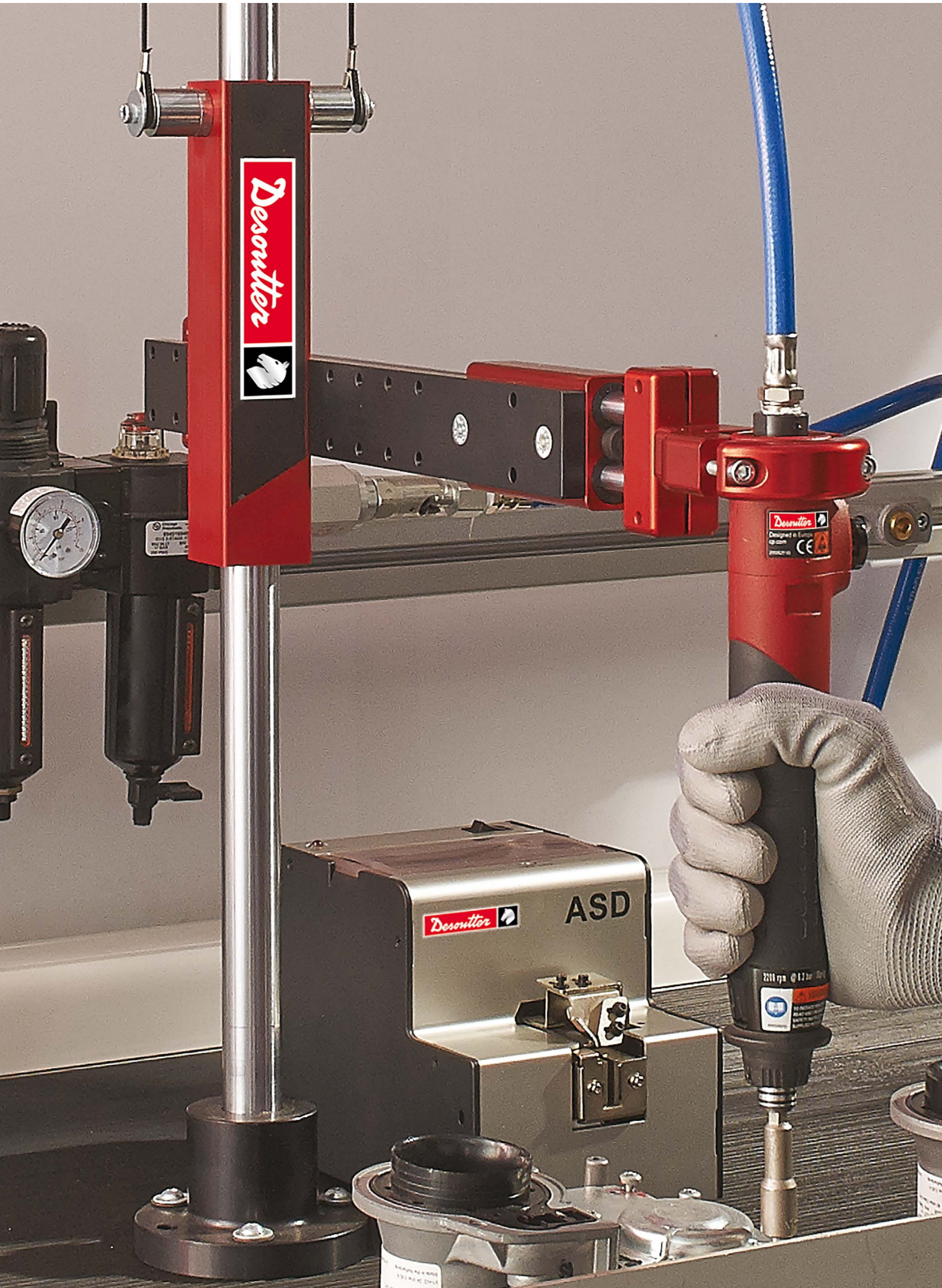
CVIL II Range

MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ERF3L	615 165 286 0	0.35 - 3	0.26 - 2.2
ERF5L	615 165 287 0	0.5 - 5	0.37 - 3.7
ERF10L	615 165 288 0	3 - 10	2.2 - 7.4
ERF20L	615 165 289 0	5 - 20	3.7 - 14.8
ERF20S	615 165 290 0	5 - 20	3.7 - 14.8
ERF30S	615 165 291 0	7 - 30	5.2 - 22.1

For further information about the technical data see pages 65

For further information about technical data, please contact your Desoutter representative or Project Manager for assistance

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Optimized Workstation

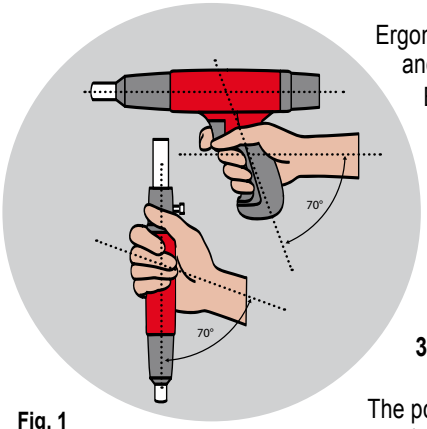


Fig. 1
Holding tools in an ergonomically neutral position

Ergonomics deals with the interactions between operators and their work equipment, work environment and work process

Ergonomically designed work systems enhance safety, effectiveness and efficiency, improve human working and living conditions, and counteract adverse effects on human health and performance

Desoutter has been developing products to improve the comfort of use and counter balance some of the below situations:

1. Hand position on the tool: based on application a straight or pistol grip tool is suggested (Fig. 1)

2. Tool position in the workspace: easy to reach and at the right height to minimize the unnecessary movement of the operator (Fig. 2 and 3)

3. Forces exerted: pulling force, torque reaction and the repetitiveness of these forces (Fig. 2 and 3)

The potential benefits of using Desoutter ergonomic accessories together with tools as described in this brochure are:

- Reduce repetitive stress injuries (RSI)
- Reduced operator fatigue
- Greater productivity
- Improved quality
- Reduced handling time
- Greater operator satisfaction
- Lower recruitment costs

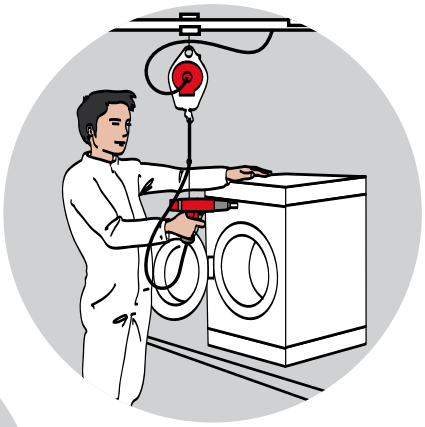


Fig. 2
Desoutter balancer

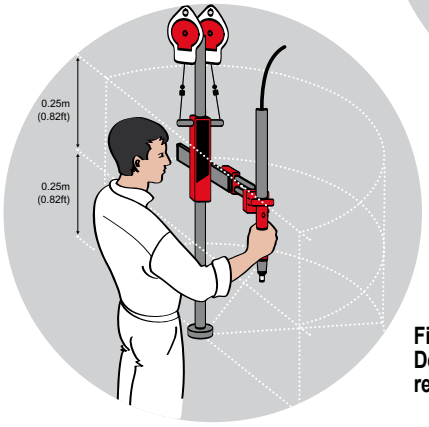
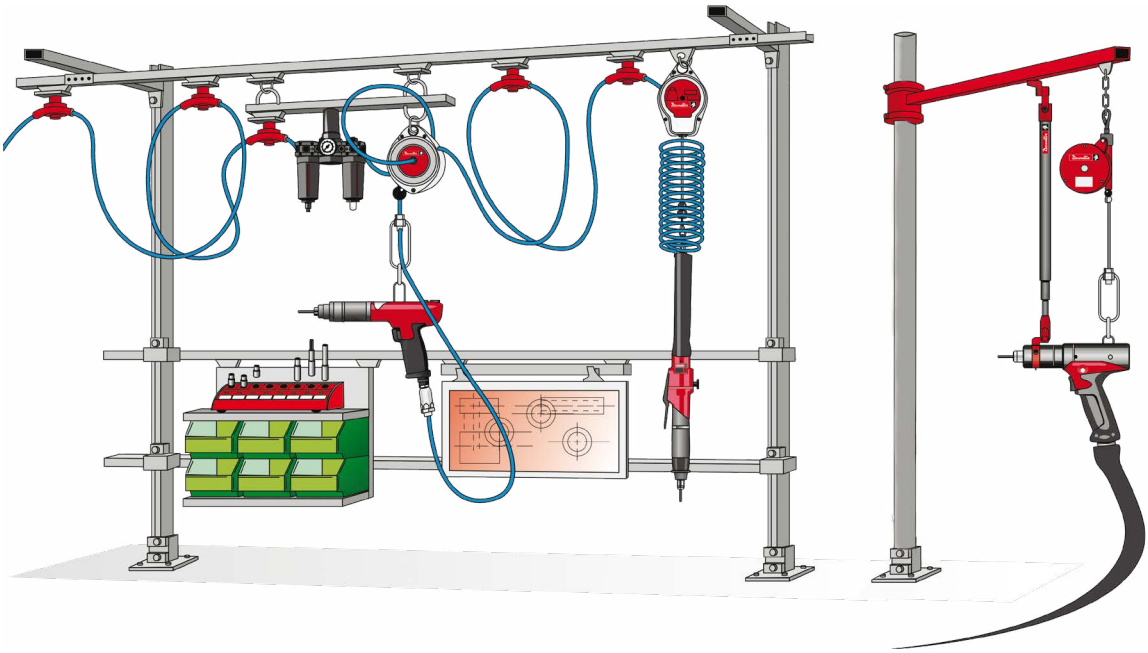
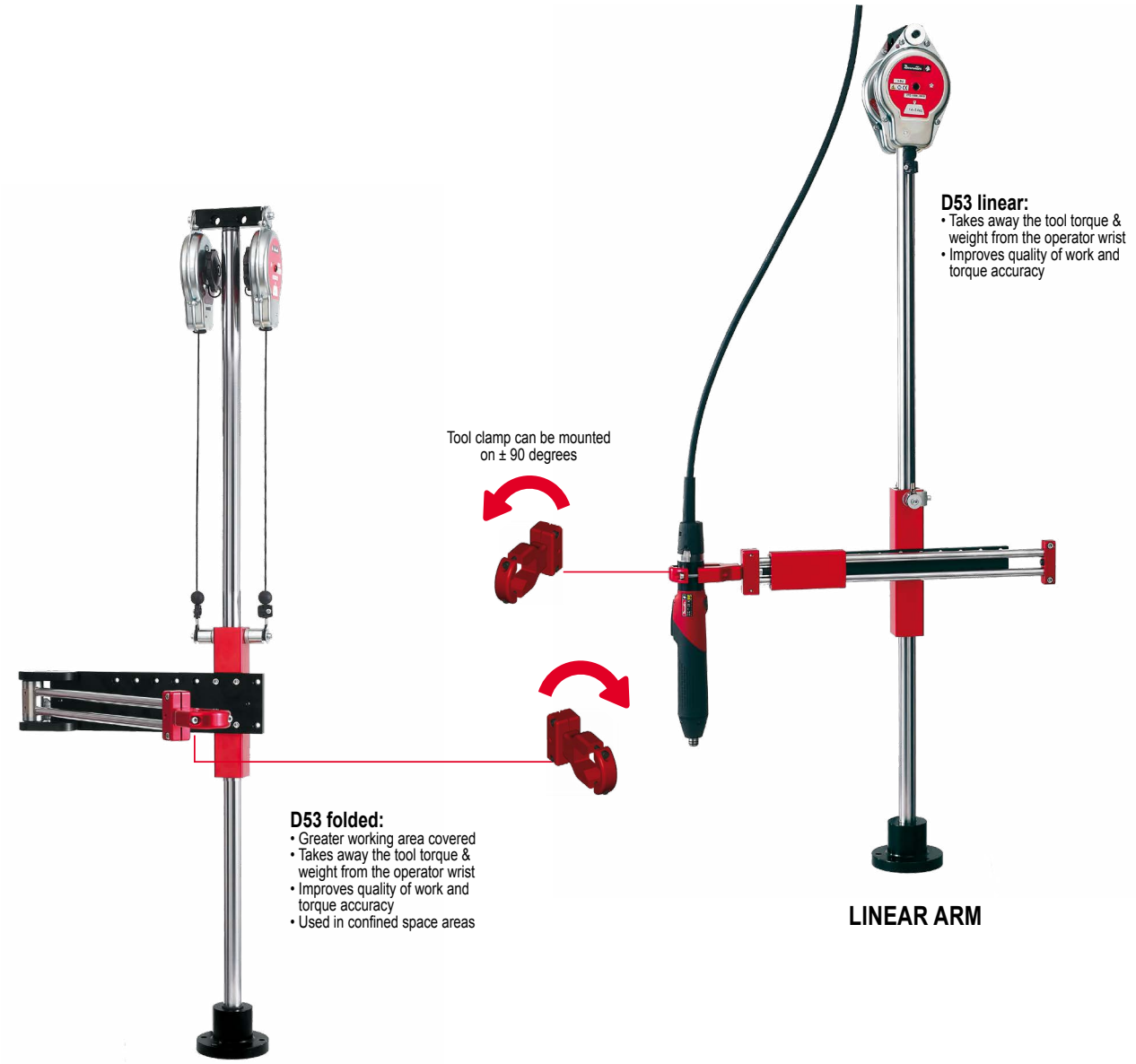


Fig.3
Desoutter torque reaction arm



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Linear and Folded torque reaction arms



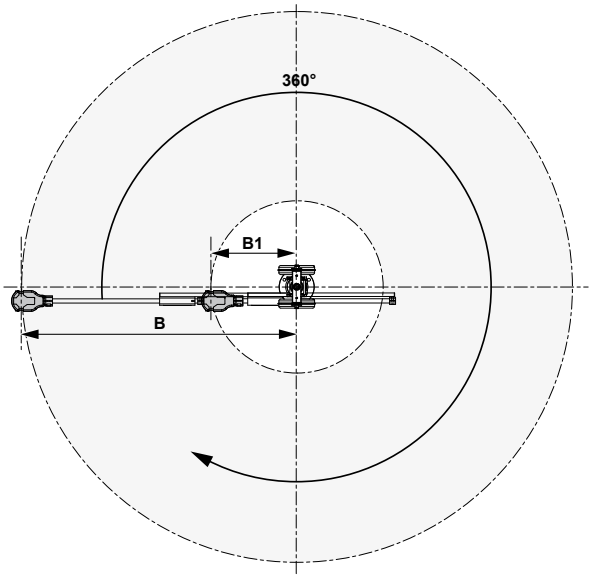
For full tool clamp program, please see details on page 162

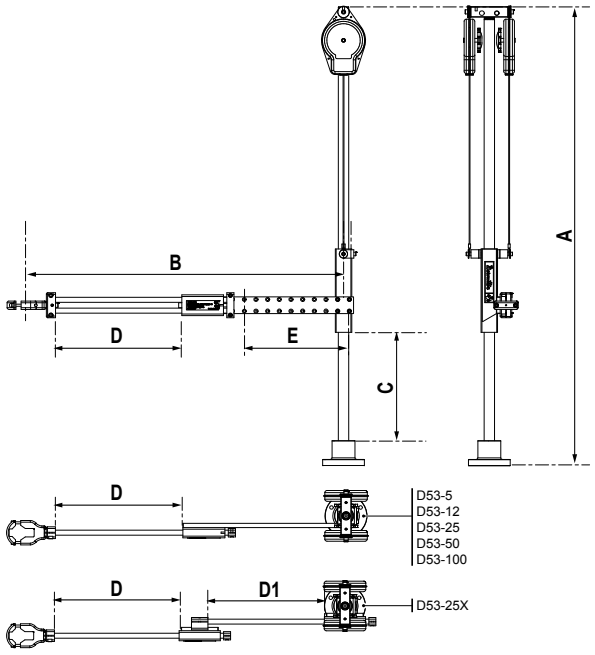
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5*	**615 810 700 0**	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12*	**615 810 701 0**	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25*	**615 810 702 0**	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25X Extended reach*	**615 810 703 0**	25	18.4	2.2	4.8	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50	**615 810 704 0**	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100	**615 810 705 0**	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S*	**615 810 706 0**	5	3.7	0.8	1,8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S*	**615 810 707 0**	12	8.8	1.5	3,3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S*	**615 810 708 0**	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S	**615 810 709 0**	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S	**615 810 710 0**	100	73.7	6.0	13.2	2 x 22D		

(*) Universal D53 tool clamp included

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D53 - Dimensions

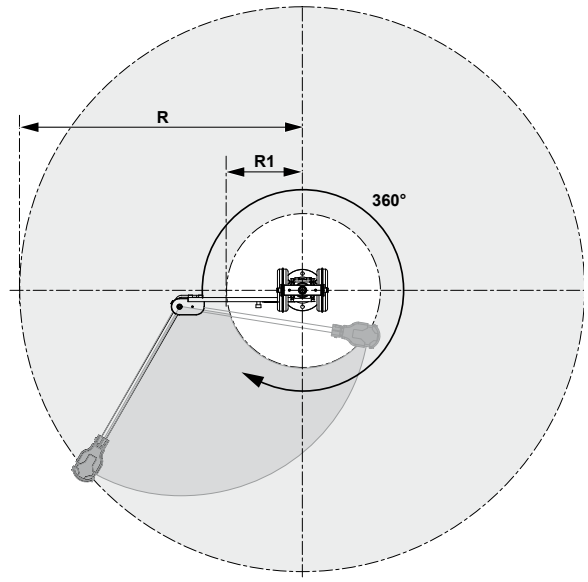


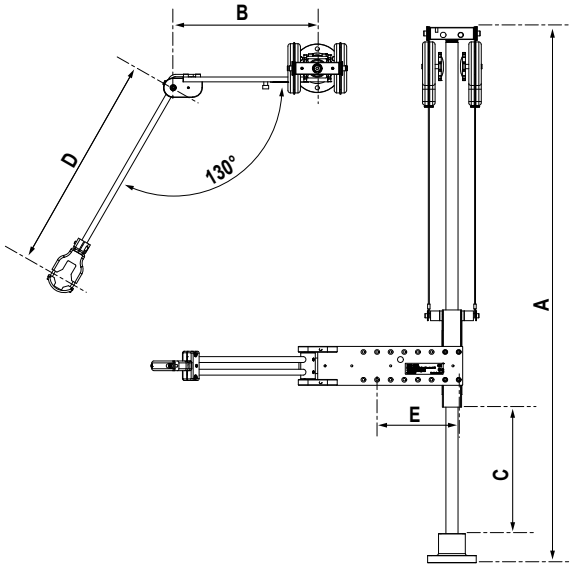


D53 linear working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH MAXI-B		WIDTH MINI-B		VERTICAL STROKE C		HORIZONTAL STROKE D		HORIZONTAL STROKE D1		FIXED STROKE E		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in.	kg	lb
D53- 5	**615 810 700 0**	5	3.7	732	28.8	592*	23.3*	220*	8.7*	310	12.2	205	8.1	-	-	168	6.6	0.8	1.76
D53-12	**615 810 701 0**	12	8.9	888	35.0	710*	28*	260*	10.2*	465	18.3	255	10.0	-	-	196	7.7	1.5	3.3
D53-25	**615 810 702 0**	25	18.4	1132	44.6	779*	30.7*	231*	9.1*	615	24.2	290	11.4	-	-	252	9.9	2.5	5.5
D53-25X	**615 810 703 0**	25	18.4	1132	44.6	794*	31.2*	230*	9.0*	615	24.2	290	11.4	275	10.8	-	-	2.2	4.85
D53-50	**615 810 704 0**	50	36.9	1147	45.2	888*	35.0*	267**	10.5**	515	20.3	355	14.0	-	-	266	10.5	5.0	11.0
D53-100	**615 810 705 0**	100	73.8	1147	45.2	916*	36.0*	255**	10.0**	515	20.3	395	15.6	-	-	266	10.5	6.0	13.2

(*) With clamp - (**) Without clamp





D53 folded working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH B		VERTICAL STROKE C		RADIUS D		FIXED STROKE E		RADIUS R		RADIUS R1		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53- 5S	**615 810 706 0**	5	3.7	732	28.8	248	9.76	270	10.6	370*	14.6*	168	6.6	546	21.5	140	5.5	0.8	1.76
D53-12S	**615 810 707 0**	12	8.9	888	35.0	298	11.73	425	16.7	420*	16.5*	168	6.6	639	25.2	146	5.8	1.5	3.3
D53-25S	**615 810 708 0**	25	18.4	1132	44.6	296	11.65	580	22.8	470*	18.5*	168	6.6	685	27	183	7.2	2.5	5.5
D53-50S	**615 810 709 0**	50	36.9	1147	45.2	336	1.1	520	20.5	440**	17.3**	228	9.0	698	27.5	154	6.1	5.0	11.0
D53-100S	**615 810 710 0**	100	73.8	1147	45.2	391	15.4	500	19.7	490**	19.3**	228	9.0	788	31	158	6.2	6.0	13.2

(*) With clamp - (**) Without clamp

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Linear high torque reaction arms

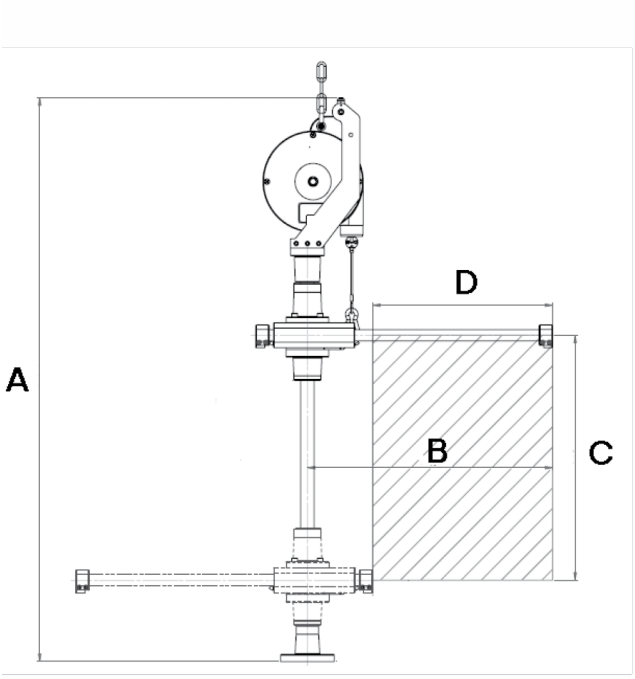


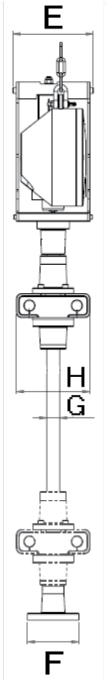
D53-150/1000 linear:
- High torque arms from 150 to 1000Nm (111 to 740 ft.lb)
- Standard and extended versions

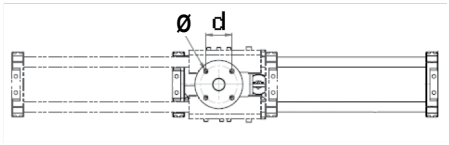
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		BALANCER INCLUDED	TOOL CLAMP DIAMETER
		Nm	ft. lb	kg	lb.		
D53-150	**615 811 658 0**	150	111	7	15.4	1 x 14DF	To order separately contact your Desoutter representatives
D53-150XL	**615 811 659 0**	150	111	6	13.2	1 x 14DF	
D53-300	**615 811 660 0**	300	222	14	30.9	1 x 25DF	
D53-300XL	**615 811 661 0**	300	222	12.5	27.6	1 x 25DF	
D53-500	**615 811 662 0**	500	370	30	66.2	1 x 45DF	
D53-500XL	**615 811 663 0**	500	370	27.4	60.4	1 x 45DF	
D53-1000	**615 811 664 0**	1000	740	21	46.3	1 x 45DF	
D53-1000XL	**615 811 665 0**	1000	740	17.8	39.3	1 x 45DF	

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D53HT - Dimensions







MODEL	PART NUMBER	HEIGHT A		WIDTH (WO/CLAMP) MIN-B		MAX-B		VERTICAL STROKE MIN-C		MAX-C		TOOL WEIGHT	
		mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53-150	**615 811 658 0**	1049	41.3	240	9.4	600	23.6	154.5	6.1	644	25.4	7	15.4
D53-150XL	**615 811 659 0**	1159	45.6	240	9.4	840	33.1	154.5	6.1	754	29.7	6	13.2
D53-300	**615 811 660 0**	1216	47.9	260	10.2	660	26.0	180.0	7.1	720	28.3	14	30.9
D53-300XL	**615 811 661 0**	1296	51	260	10.2	860	33.9	180.0	7.1	780	30.7	12.5	27.6
D53-500	**615 811 662 0**	1346	53	290	11.4	730	28.7	209.5	8.2	815	32.1	30	66.2
D53-500XL	**615 811 663 0**	1561	61.5	290	11.4	1090	42.9	209.5	8.2	1009	39.7	27.4	60.4
D53-1000	**615 811 664 0**	1556	61.3	320	12.6	800	31.5	278.5	11.0	968	38.1	21	46.3
D53-1000XL	**615 811 665 0**	1691	66.6	320	12.6	1120	44.1	278.5	11.0	1078	42.5	18	39.3

MODEL	HORIZONTAL STROKE D		E		F		G		H	
	mm	in	mm	in	mm	in	mm	in	mm	in
D53-150	360	14.4	170	6.7	90	3.5	25	1.0	150	5.9
D53-150XL	600	24	170	6.7	90	3.5	25	1.0	150	5.9
D53-300	400	16	186	7.3	119	4.7	30	1.2	170	6.7
D53-300XL	600	24	186	7.3	119	4.7	30	1.2	170	6.7
D53-500	440	17.6	180	7.1	119	4.7	40	1.6	170	6.7
D53-500XL	800	32	180	7.1	119	4.7	40	1.6	170	6.7
D53-1000	480	19.2	182	7.2	129	5.1	50	2.0	220	8.7
D53-1000XL	800	32	182	7.2	129	5.1	50	2.0	220	8.7

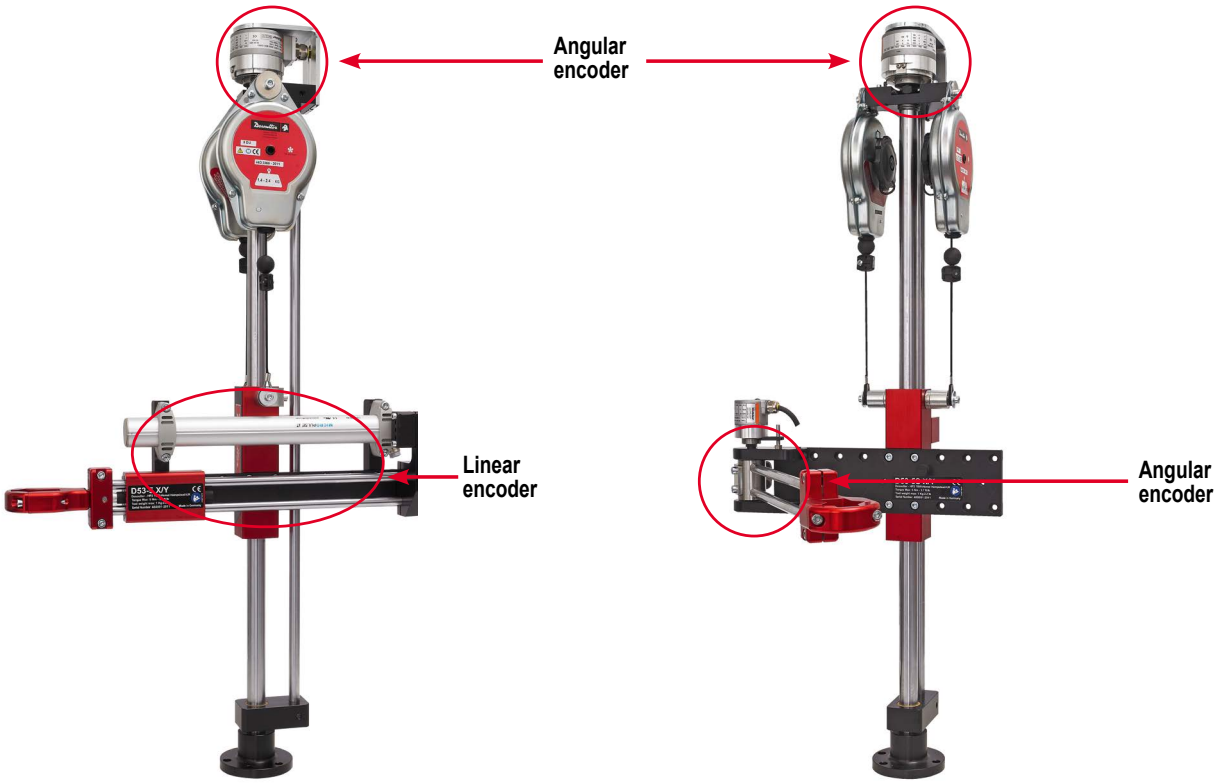
MODEL	D		ø		ARM WEIGHT	
	mm	in	mm	in	kg	lb
D53-150	50	2.0	11	0.4	12.5	27.6
D53-150XL	50	2.0	11	0.4	13.7	30.2
D53-300	65	2.6	11	0.4	26.7	58.9
D53-300XL	65	2.6	11	0.4	28.2	62.2
D53-500	65	2.6	11	0.4	40.9	90.2
D53-500XL	65	2.6	11	0.4	43.7	96.3
D53-1000	72	2.8	13.5	0.5	57.9	127.7
D53-1000XL	72	2.8	13.5	0.5	61.5	135.7

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D53 X/Y - Positionning arms for Posco 500

- D53 X/Y stands allows to track the tool position during assembly process
- Same tool stand as D53 standard one
- 2 different versions with encoders
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Linear arm: Linear/Angular/Encoders
- Swivel arm: Angular/Angular/Encoders





LINEAR ARM **FOLDED ARM**

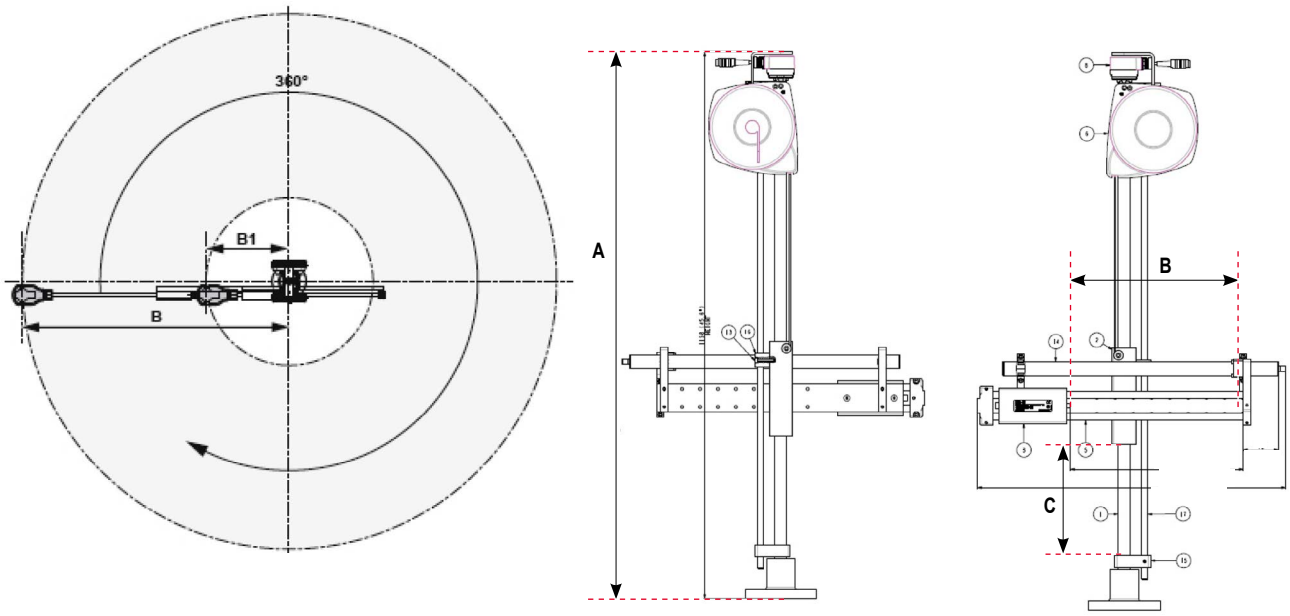
For full tool clamp program, please see details on page 154

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft.lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5 X/Y AXLE*	615 397 874 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12 X/Y AXLE*	615 397 875 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25 X/Y AXLE*	615 397 876 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50 X/Y AXLE*	615 397 877 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100 X/Y AXLE*	615 397 878 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S X/Y AXLE*	615 397 879 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S X/Y AXLE*	615 397 880 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S X/Y AXLE*	615 397 881 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S X/Y AXLE	615 397 882 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S X/Y AXLE	615 397 883 0	100	73.7	6.0	13.2	2 x 22D		

(*) Universal D53 tool clamp included

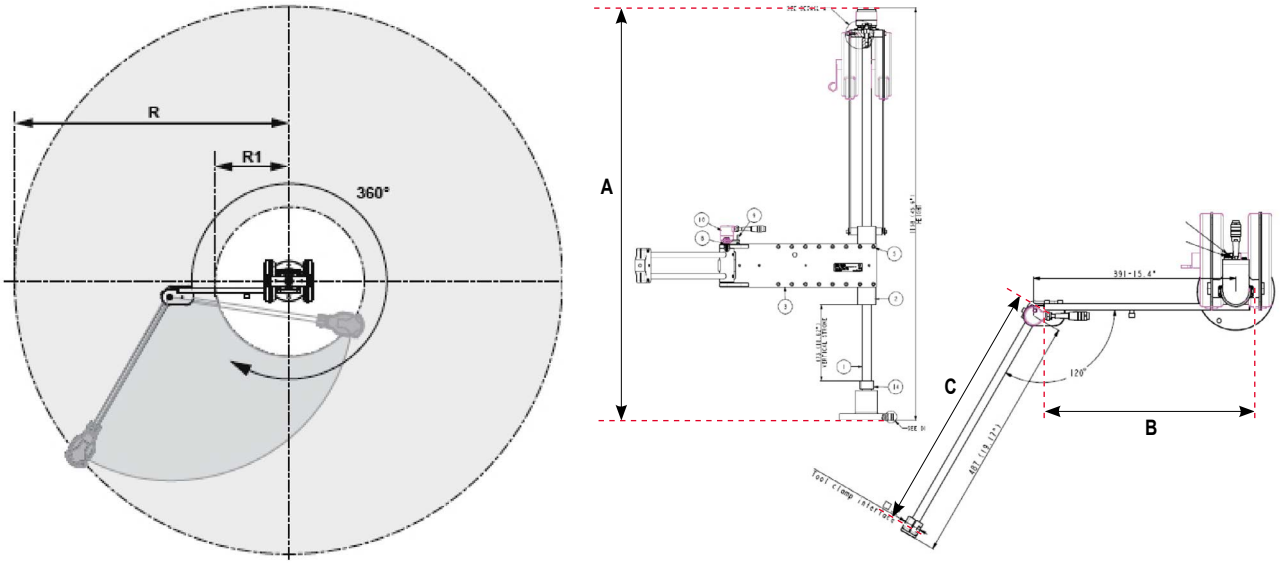
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D53 X/Y - Dimensions



Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 397 874 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 397 875 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 397 876 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 397 877 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 397 878 0	1189	46.8	398.5	15.7	486	19.1



Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 397 882 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 397 883 0	1158	45.6	391	15.4	490	19.3	788	31	158	6.2

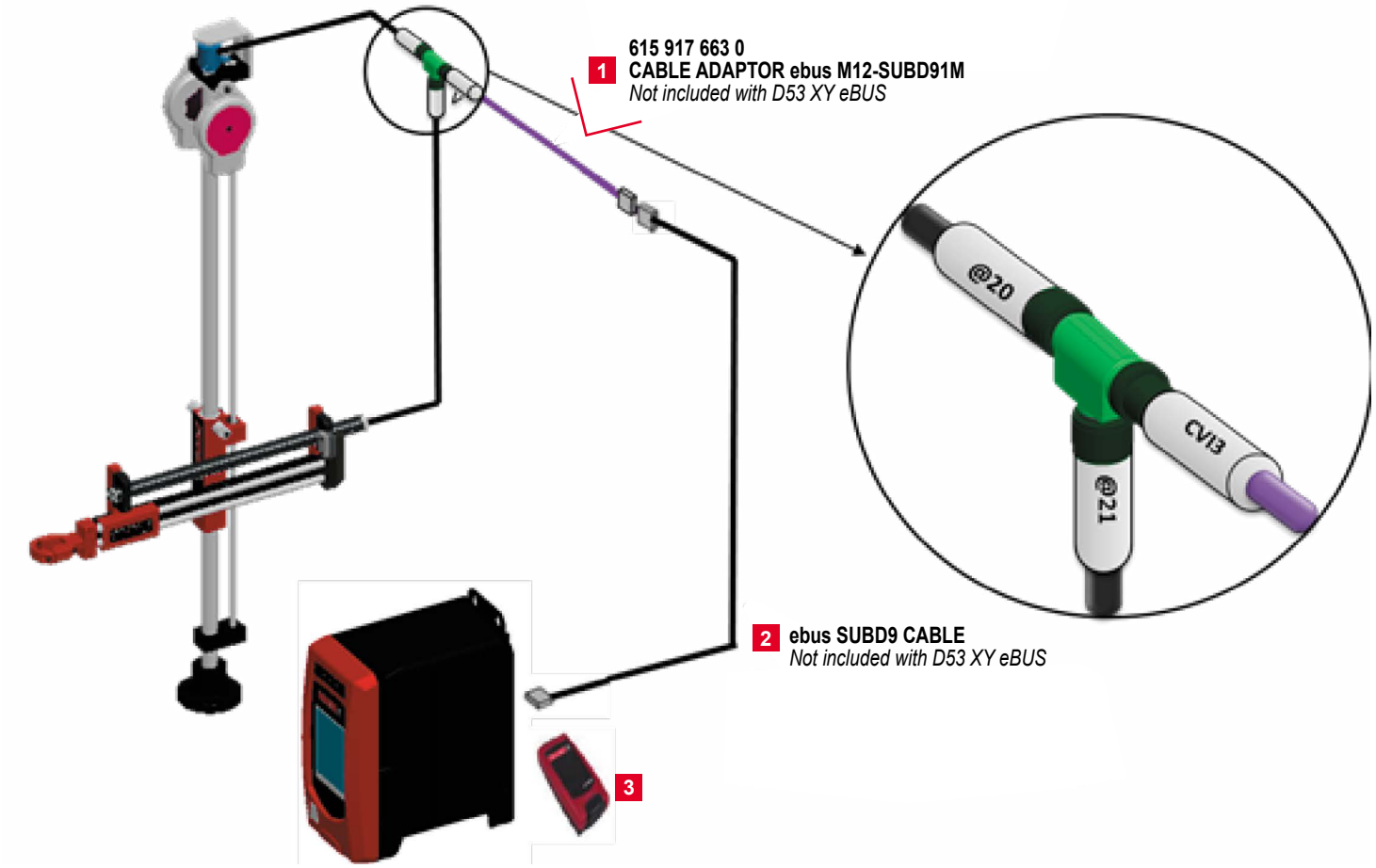
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D53 X/Y – Positionning arms for CVI3

- D53 X/Y CANopen stands allows to track the tool position during assembly process
- Same tool stand as D53 standard one
- 2 different versions with encoders
- This arm is intended to be used together with our CVI3 controller
- Connected directly to the CVI3 controller
- Needs ePOD 2 or higher
- Easy positioning learning mode

ACCESSORIES NEEDED :

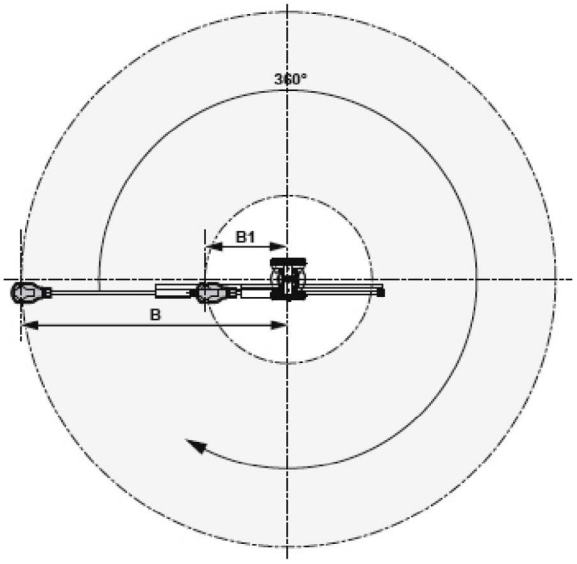
1 Cable adaptor EBUS M12 / SUBD9	6159176630
2 Select one of them :	
eBUS SUBD9 cable 3m	6159176220
eBUS SUBD9 cable 5m	6159176230
eBUS SUBD9 cable 15m	6159176240
3 Select one ePOD :	
ePOD2	6159360760
ePOD3	6159360770

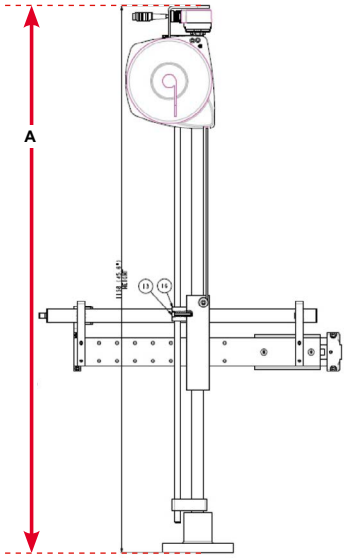


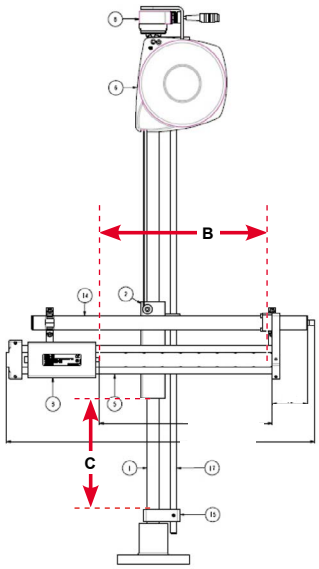
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5 X/Y-AXLE EBUS	615 812 267 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12 X/Y-AXLE EBUS	615 812 268 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25 X/Y-AXLE EBUS	615 812 269 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50 X/Y-AXLE EBUS	615 812 270 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100 X/Y-AXLE EBUS	615 812 271 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S X/Y-AXLE EBUS	615 812 272 0	5	3.7	0.8	1,8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S X/Y-AXLE EBUS	615 812 273 0	12	8.8	1.5	3,3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S X/Y-AXLE EBUS	615 812 274 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S X/Y-AXLE EBUS	615 812 275 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S X/Y-AXLE EBUS	615 812 276 0	100	73.7	6.0	13.2	2 x 22D		

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D53 X/Y – Positionning arms for CVI3

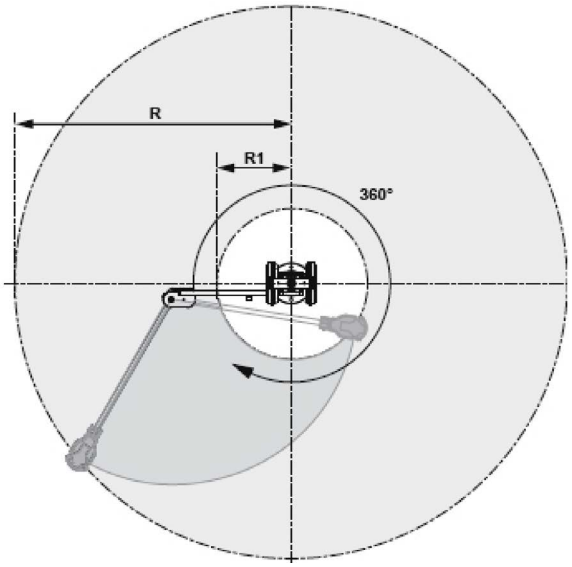


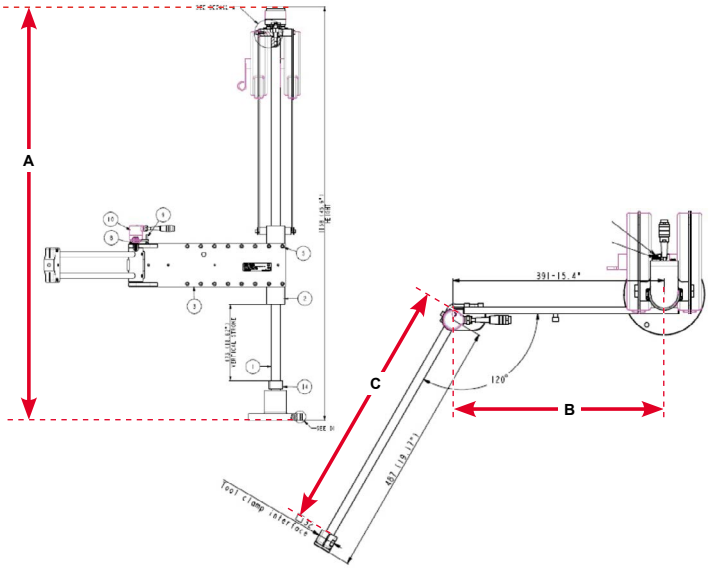




Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 397 874 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 397 875 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 397 876 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 397 877 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 397 878 0	1189	46.8	398.5	15.7	486	19.1





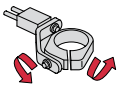
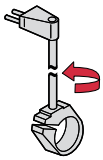
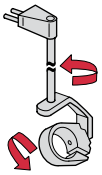
Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 397 882 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 397 883 0	1158	45.6	391	15.4	490	19.3	788	31	158	6.2

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Tool clamp guide for D53 arms

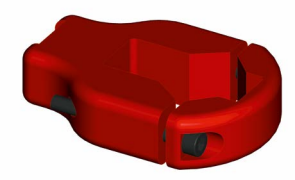
Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED		ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM					ADD ADAPTORS IF YOU USE ROTATION CLAMPS
STEP 1	**STEP 2**		**STEP 3**					**STEP 4**
TOOL MODEL	**D53 MODELS**		**TOOL CLAMP REFERENCES**					**COMMENTS**
	Linear arms	Swiveling arms	Universal Clamp	Spline	Vertical 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 1 axe rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	
								
SB/SBP/SC2/SC/ SCP(T)SH70 SLBN SLC(P) Nose mount ECS/ERS/ECD 5	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	**615 810 835 0** Included **(A)** 28.5-41mm		**615 396 615 0 + 409083** NOT Included To be ordered	**615 396 615 0 + 409113** NOT Included To be ordered	**615 396 615 0 + 409173** NOT Included To be ordered	
SD/SDP/SDT ERP 3/5/10/20 ECP 3/5/10/20	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	**615 810 835 0** Included **(A)** 28.5-41mm		**615 396 615 0 + 409093** NOT Included To be ordered	**615 396 615 0 + 409123** NOT Included To be ordered	**615 396 615 0 + 409183** NOT Included To be ordered	SD Top mount: adaptor ref. **409273** To be ordered with rotation clamps SD Nose mount: **465463** for 320-1470rpm / **465443** for 2200-3500rpm - To be ordered with rotation clamps
SLC Top mount	D53-5 / D53-12	D53-5S D53-12S	**615 810 838 0** NOT Included To be ordered **(B)** 40-50 mm		**615 396 615 0 + 409093** NOT Included To be ordered	**615 396 615 0 + 409123** NOT Included To be ordered	**615 396 615 0 + 409183** NOT Included To be ordered	
ECA 15/20/30	D53-5 D53-12 D53-25	D53-5S D53-12S D53-25S	**615 810 838 0** NOT Included To be ordered **(B)** 40-50 mm					
SH 150/200/280/420/500 SH 700/850 ERP 30/40 ERAL1.5/2 ECS/ERS	D53-25(X) D53-50 D53-100	D53-25S(X) D53-50S D53-100S		**615 811 029 0** NOT Included To be ordered **(B) 28-55 mm**				
ERDL 4 ECD 50/70/120	D53-50 / D53-100	D53-50S D53-100S		**615 810 203 0** NOT Included To be ordered **(C)**				
EID 44-1200 EID 75-900 EID 65-800	D53-50 / D53-100	D53-50S D53-100S		**615 812 136 0** NOT Included To be ordered **(C)**				
ERDL 6	D53-100	D53-100S		**615 810 205 0** NOT Included To be ordered **(C)**				
ECD20/30	D53-25(X) D53-50	D53-25S(X) D53-50S		**615 810 628 0 + 615 396 191 0** NOT Included To be ordered **(D)**				Parts to be welded
ERAL 4-90/110/120 ERAL 6-135 ECA 70... 150	D53-100	D53-100S		**615 810 628 0 + 615 396 227 0** NOT Included To be ordered **(D)**				Parts to be welded
EID25-1200 EID 32-900 EDP/ERDL 1.5/2	D53-50	D53-50S		**615 810 628 0 + 615 396 551 5** NOT Included To be ordered **(D)**				Parts to be welded

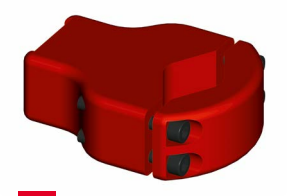
For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp.

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Tool clamps



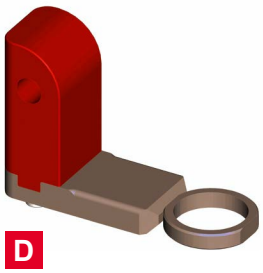
A



B



C



D



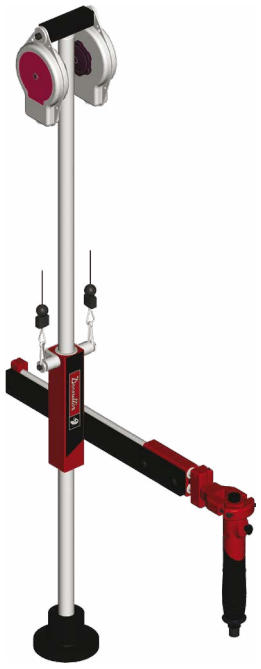
E

Specific Clamps

MODEL E	PART NUMBER
SB	615 810 123 0
SC2 / SBP / SCP(T) / SLB / ECS / SLC(P) SDP(T)	615 810 125 0
SD SH70/150/200/280 /420/500	615 810 129 0
SH700/850	615 810 131 0

D53 Tool positionning

Straight tool



Pistol grip tool



Angle nutrunner



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TRA - Telescopic reaction arms

Telescopic carbon arm: Ideal for busy workspace!

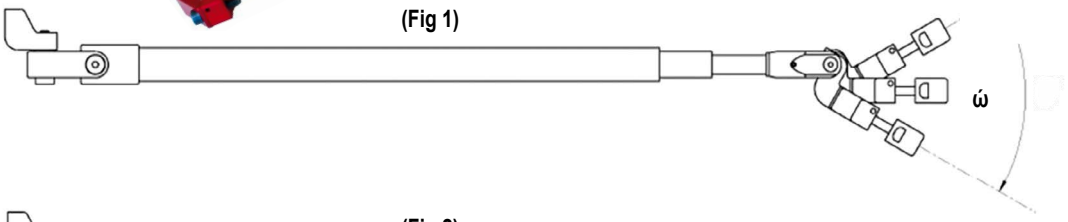
- From 12 up to 200 Nm (8.9 up to 148 ft.lb) torque capacity
- Several lengths available
- 90 degrees tool clamp interface for straight or pistol grip tools
- Limited tool clamp angle rotation to avoid side forces in the operator arm (ώ) (Fig 1)

Benefits:
- Extremely lightweight carbon made torque arm for improved comfort of use
- Flexible solution

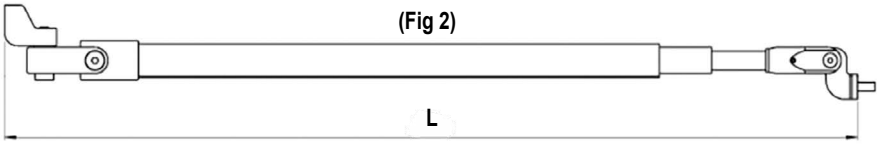


Need to order a balancer separately see page 174

(Fig 1)

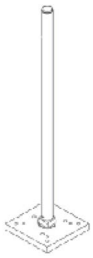


(Fig 2)





B



A



C

** Universal balancer adaptater

OPTIONAL ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER
A	Bench stand Ø 32mm (1.26") - H 753mm (29.64")	615 810 194 0
B	Bench stand holder Ø 32mm (1.26") for TRA 12/25	615 810 121 0
B	Bench stand holder Ø 32mm (1.26") for TRA 50/100	615 810 140 0
C	Universal balancer adapter	615 397 922 5

MODEL	PART NUMBER	MAXIMUM TORQUE		MAX. MIN LENGTH L		ώ (DEG)	WEIGHT		TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	mm	in.		kg	lb	mm	in.
TRA12 1150*	615 810 089 0	12	8.9	516-1128	20-44	170	0.46	1.01	28-49	1.10-1.92
TRA12 1600*	615 810 090 0	12	8.9	666-1578	26-62	170	0.51	1.12	28-49	1.10-1.92
TRA12 2100*	615 810 091 0	12	8.9	835-2083	32-82	170	0.57	1.26	28-49	1.10-1.92
TRA25 1150*	615 810 092 0	25	18.4	524-1124	20-44	170	0.60	1.32	28-49	1.10-1.92
TRA25 1600*	615 810 093 0	25	18.4	674-1574	26-62	170	0.70	1.54	28-49	1.10-1.92
TRA25 2100*	615 810 094 0	25	18.4	841-2075	33-82	170	0.77	1.70	28-49	1.10-1.92
TRA25 2600*	615 810 095 0	25	18.4	1007-2573	39-101	170	0.86	1.89	28-49	1.10-1.92
TRA50 1600*	615 810 096 0	50	36.9	712-1624	28-64	40	1.14	2.51	28-50	1.10-1.97
TRA50 2100*	615 810 097 0	50	36.9	878-2125	34-84	40	1.24	2.73	28-50	1.10-1.97
TRA50 2600*	615 810 098 0	50	36.9	1045-2626	41-103	40	1.34	2.95	28-50	1.10-1.97
TRA100 1600	615 810 099 0	100	73.8	722-1628	28-64	30	1.47	3.24		
TRA100 2100	615 810 100 0	100	73.8	889-2129	35-83	30	1.41	3.11		
TRA100 2600	615 810 101 0	100	73.8	1056-2630	41-103	30	1.53	3.37		
TRA200 1600	615 810 102 0	200	148	726-1628	28-64	20	1.98	4.36		
TRA200 2100	615 810 103 0	200	148	893-2129	35-84	20	2.18	4.80		
TRA200 2600	615 810 104 0	200	148	1060-2630	41-103	20	2.39	5.27		

To order separately (see page 168)

(*) Universal TRA tool clamp included (**) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types: Part No. 615 397 922 5

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TRA - Positionning telescopic arms for Posco 500

TRA with positioning system allows to track the tool position during the assembly process

Same telescopic arm as the standard one: from 12 to 200 Nm (8.9 to 148 ft.lb) torque capacity

2 different versions:

- 1 encoder: length measurement
- 2 encoders: length measurement + angle control
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Accuracy: +/- 5mm



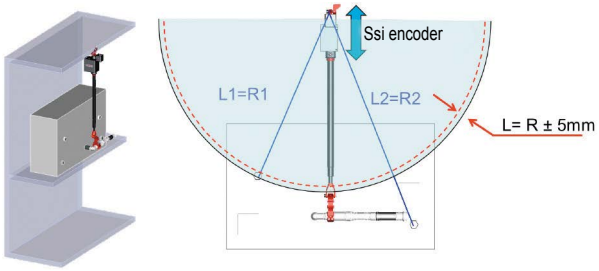


Need to order a balancer separately
See page 174

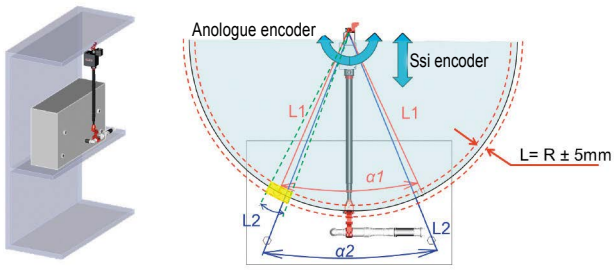


****Universal balancer adaptater**

1 encoder system



2 encoders system



MODEL	PART NUMBER	NUMBER OF ENCODER	MAXIMUM TORQUE		MAX. MIN. LENGTH		TOOL CLAMP DIAMETER	
			Nm	ft.lb	mm	in.	mm	in.
TRA 12 1600 UNI P *	**615 811 694 0**	1	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P *	**615 811 670 0**	1	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P *	**615 811 676 0**	1	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P	**615 811 682 0**	1	100	73.7	2315	91	To be ordered separately (page166)	
TRA 200 2100 P	**615 811 688 0**	1	200	147.4	2317	91		
TRA 12 1600 UNI P2 *	**615 811 695 0**	2	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P2 *	**615 811 671 0**	2	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P2 *	**615 811 677 0**	2	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P2	**615 811 683 0**	2	100	73.7	2315	91	To be ordered separately (page166)	
TRA 200 2100 P2	**615 811 689 0**	2	200	147.4	2317	91		

(*) Universal TRA tool clamp included
(**) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types. Part Nr. 615 397 922 5

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TRA X/Y – Positionning arms for CVI3

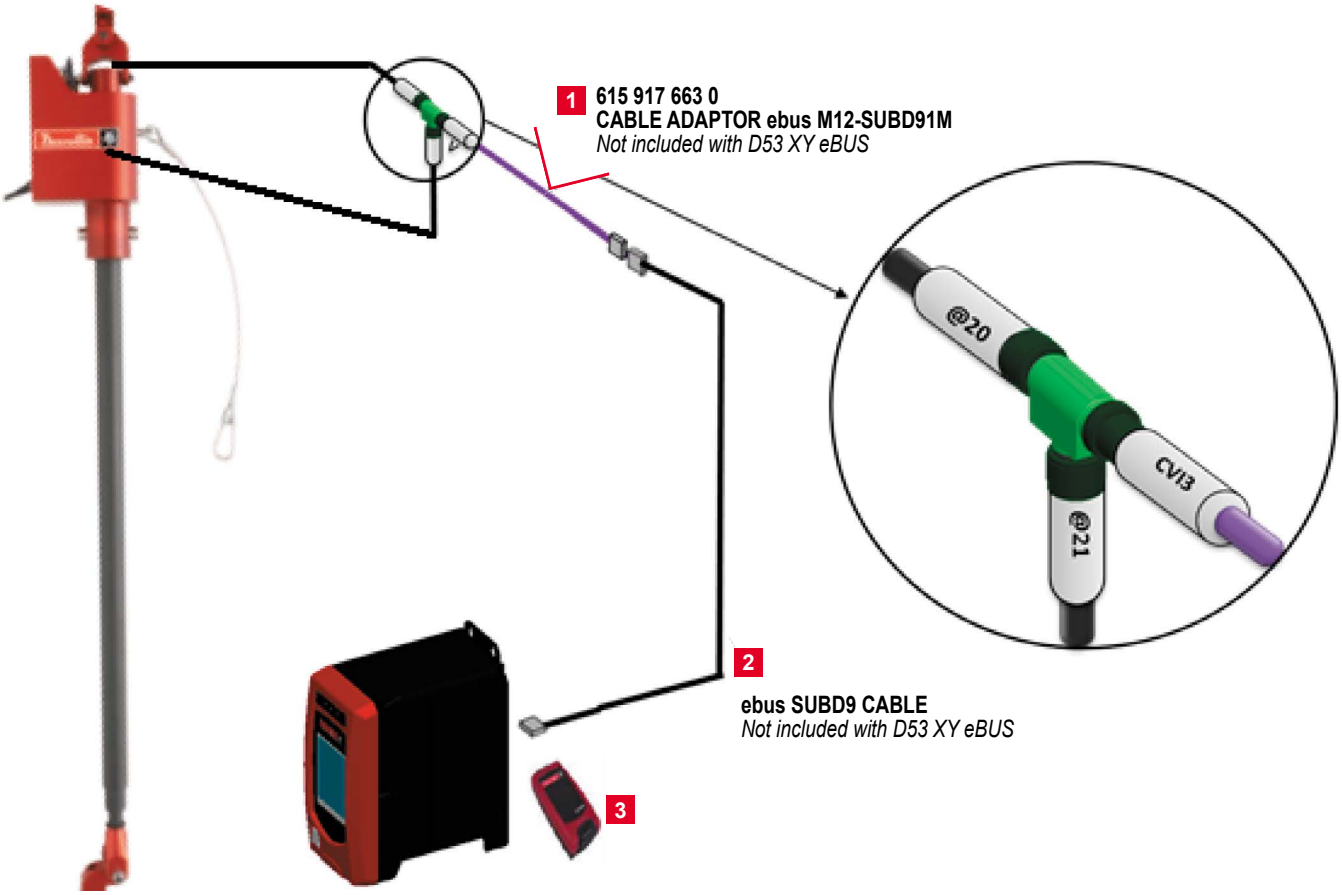
Same telescopic arms as the standard one: up to 200Nm (148 ft.lb.) torque capacity

- TRA X/Y CANopen arms allows to track the tool position during assembly process
- 2 different versions:
  - 1 encoder: length measurement
  - 2 encoders: length measurement + angle control
- This arm is intended to be used together with our CVI3 controller
- Accuracy: +/- 5mm
- Connected directly to the CVI3 controller
- Needs ePOD 2 or higher
- Easy positioning learning mode

ACCESSORIES NEEDED :

1 Cable adaptor EBUS M12 / SUBD9	6159176630
2 **Select one of them :**	
eBUS SUBD9 cable 3m	6159176220
eBUS SUBD9 cable 5m	6159176230
eBUS SUBD9 cable 15m	6159176240
3 **Select one ePOD :**	
ePOD2	6159360760
ePOD3	6159360770

- Needs ePOD 2 or higher
- Easy positioning learning mode

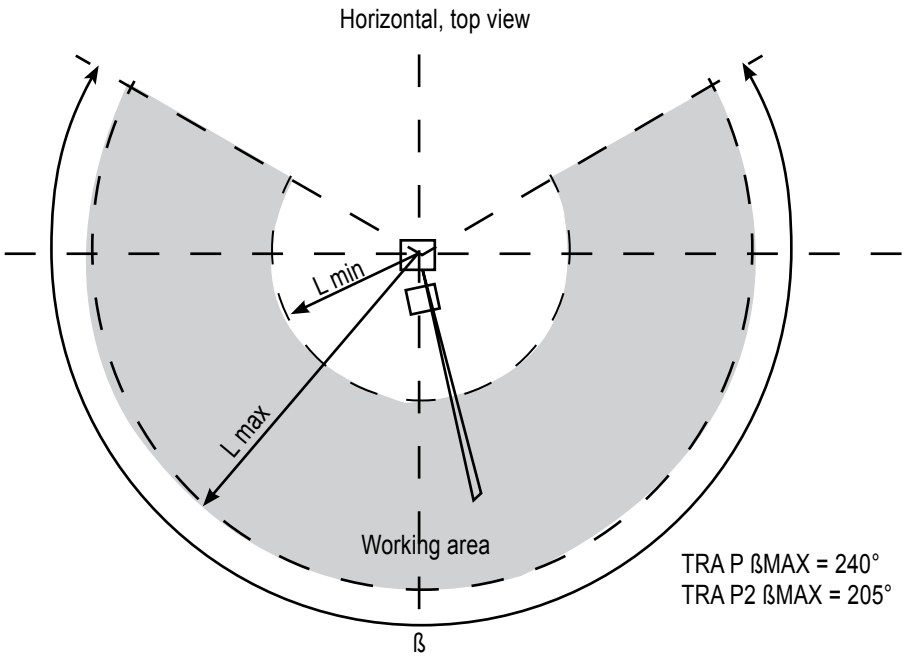


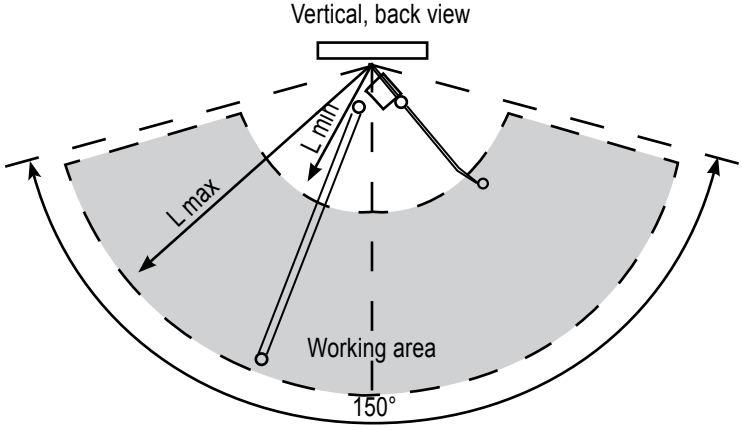
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TRA X/Y – Positionning arms for CVI3

MODEL	PART NUMBER	TORQUE MAX		L MIN		L MAX		STROKE		WEIGHT	
		Nm	Ft.lb	mm	in	mm	in	mm	in	kg	lb
TRA 12 1600 P UNI	615 812 102 0	12	8.9	883.5	34.78	1762	69.4	887.5	34.6	4	8.8
TRA 25 2100 P UNI	615 812 103 0	25	18.4	1053.5	41.47	2259	88.9	1205.5	47.5	4.2	9.3
TRA 50 2100 P UNI	615 812 104 0	50	36.9	1105	43.5	2311	91	1206	47.5	4.6	10.1
TRA 100 2100 UNI	615 812 105 0	100	73.8	1080	42.5	2315	91.15	1235	48.6	4.8	10.6
TRA 200 2100 P UNI	615 812 106 0	200	148	1085	42.7	2317	91.2	1232	48.5	6.4	14.1
TRA 12 1600 P2	615 812 107 0	12	8.9	883.5	34.78	1762	69.4	887.5	34.6	4.2	9.3
TRA 25 2100 P2	615 812 108 0	25	18.4	1053.5	41.47	2259	88.9	1205.5	47.5	4.4	9.7
TRA 50 2100 P2	615 812 109 0	50	36.9	1105	43.5	2311	91	1206	47.5	4.8	10.6
TRA 100 2100 P2	615 812 110 0	100	73.8	1080	42.5	2315	91.15	1235	48.6	5	11
TRA 200 2100 P2	615 812 111 0	200	148	1085	42.7	2317	91.2	1232	48.5	6.8	15

TRA X/Y CANopen - Dimensions





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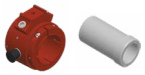
The new clamps guide for TRA

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM		
STEP 1	**STEP 2**	**STEP 3**		
TOOL MODEL	**TRA MODEL**	**TOOL CLAMP REFERENCE**	**DESCRIPTION**	**PHOTO**
SB/SBP SC2/SCP/SCPT SD/SDP/SDT SH 70/150/200/280 SLBN/SLC/SLCP ECS ERP 3/5/10/20 ECD 5	TRA12* / 25 * * Clamp included with the arm	615 810 118 0 Included with the arm	Universal Clamp 28 - 49mm (1.1 - 1.92")	A
ERP 30/40 ERDL 1,5/2 ERAL 4-90	TRA50* / 100 * Clamp included with the arm	6158101370 Included with TRA50. To be ordered for TRA100	Universal Clamp 28 - 50mm (1.1 - 1.97")	B
SH 420/500	TRA50 TRA100	6158129030 + 6158128940 6158129040 + 6158128940		C
SH 700	TRA50 TRA100	6158129030 + 6158129000 6158129040 + 6158129000		C
SH 850	TRA 100	6158128940 + 6158128970		C
ERAL 1,5/2 ERAL 4 ERAL 6	TRA50 TRA100	6158129030 + 6158128960 6158129040 + 6158128960		C
ECA 15/20/30	TRA 50	6158129030 + 6158128930		C
ECA 40/60	TRA 100	6158129040 + 6158128930		C
EAD 20/32 EAB(C) 26/32/45	TRA50	6158129030 + 6158128880		C
EAD 50-900	TRA50 TRA100	6158129030 + 6158128910 6158129040 + 6158128910		C
EAD 70/80/105 EAB(C) 60	TRA50 TRA100	6158129030 + 6158128950 6158129040 + 6158128950		C
ERDL 4 - 60/80/135 ECD 50/70/120 EID 44/65/75	TRA100 TRA200	6158102030 for TRA100 6158102020 for TRA200 NOT Included with the arm To be ordered	Spline G1 D40,5	D
ERDL 6 - 170/220/250	TRA200	6158102040 NOT Included with the arm To be ordered	Spline G1 D50	D
EDP EID 25/32	TRA 50	6158106280 + 6153965515 NOT Included with the arm To be ordered	Clamp to be welded	E
ECD 20/30	TRA 50	6158106280 + 6153961910 NOT Included with the arm To be ordered	Clamp to be welded	E
ECA 70/90/115/125/150	TRA 100	6158129040 + 6158128980		C
ERAL 4 - 225 ECA 200	TRA200	6158106310 + 6153962300 NOT Included with the arm To be ordered	Clamp to be welded	E

A 

B 

C 

D 

E 

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp

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Torque Tubes



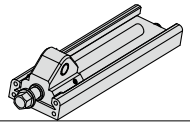
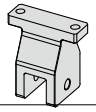
Telescopic arm for vertical and horizontal fastening applications



- From 0 to 100 Nm (0 to 73.7ft.lb) torque capacity
- Different strokes available
- Designed to be used with all Desoutter tools
- Gravity center adjustment and rigid fixation as options

MODEL	PART NUMBER	MAX TORQUE		STROKE		WEIGHT	
		Nm	ft lb	mm	in	kg	lb
TT10-850/300	**615 812 260 0**	12	8.9	300	11.8	1.4	3.1
TT25-1150/300	**615 812 082 0**	25	18.4	300	11.8	3.5	7.8
TT25-1600/600	**615 812 261 0**	25	18.4	600	23.6	3,9	8.7
TT50-1700/600	**615 812 262 0**	50	36.9	600	23.6	5.3	11.7
TT50-2100/900	**615 812 263 0**	50	36.9	900	35.4	6.3	13.8
TT100-1700/600	**615 812 264 0**	100	73.7	600	23.6	8.6	18.9
TT100-2100/900	**615 812 265 0**	100	73.7	900	35.4	10	22

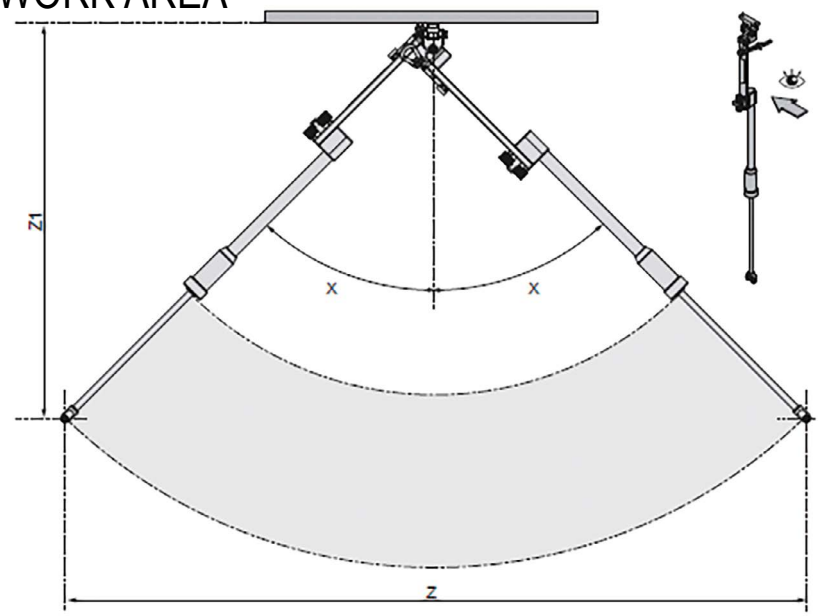
OPTIONAL ACCESSORIES

PART NUMBER	DESCRIPTION	FOR TORQUE TUBE	
615 812 203 0	Gravity center adjustment	TT10	
615 812 149 0	Gravity center adjustment	TT25	
615 812 532 0	Gravity center adjustment	TT50	
615 812 539 0	Gravity center adjustment	TT100	
615 812 211 0	Rigid fixation	TT10	
615 812 157 0	Rigid fixation	TT25	
615 812 535 0	Rigid fixation	TT50 / 100	
615 812 141 0	Balancer DU fixation	TT10 / 25	
615 812 145 0	Balancer D fixation	TT25/50	
615 812 522 0	Balancer DF fixation	TT50 / 100	

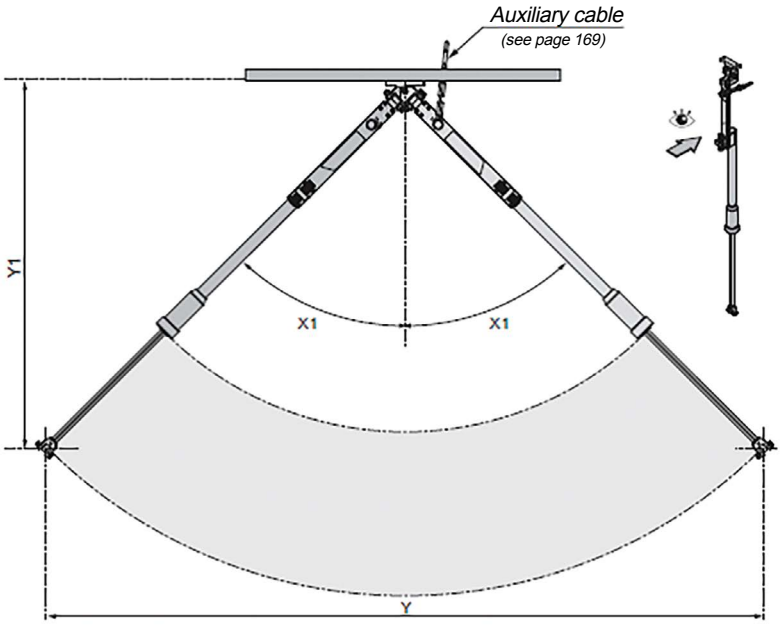
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Torque Tubes

WORK AREA



MODEL	PART NUMBER	X	Z MAX ±5		Z1 MAX ±5	
		Deg	mm	in	kg	lb
TT10-850/300	615 812 260 0	45	1378	54.25	723.8	28.5
TT25-1150/300	615 812 082 0	45	1508.4	59.39	819	32.2
TT25-1600/600	615 812 261 0	45	2356.9	92.8	1243.3	48.9
TT50-1700/600	615 812 262 0	45	2552	100.5	1362	53.6
TT50-2100/900	615 812 263 0	45	340.3	13.4	1786.45	70.3
TT100-1700/600	615 812 264 0	45	2583.1	101.7	1377.67	54.2
TT100-2100/900	615 812 265 0	45	3431.6	135.1	1801.94	70.9



MODEL	PART NUMBER	X	Y MAX ±5		Y1 MAX ±5	
		Deg	mm	in	kg	lb
TT10-850/300	615 812 260 0	45	1403.5	55.3	721.9	28.42
TT25-1150/300	615 812 082 0	45	1562.1	61.5	807.8	31.8
TT25-1600/600	615 812 261 0	45	2410.6	94.9	1232	48.5
TT50-1700/600	615 812 262 0	45	2626.8	103.4	1342.6	52.9
TT50-2100/900	615 812 263 0	45	3475.4	136.8	1766.9	69.6
TT100-1700/600	615 812 264 0	45	2657.1	104.6	1357.6	53.4
TT100-2100/900	615 812 265 0	45	3505.6	138.0	1781.8	70.2

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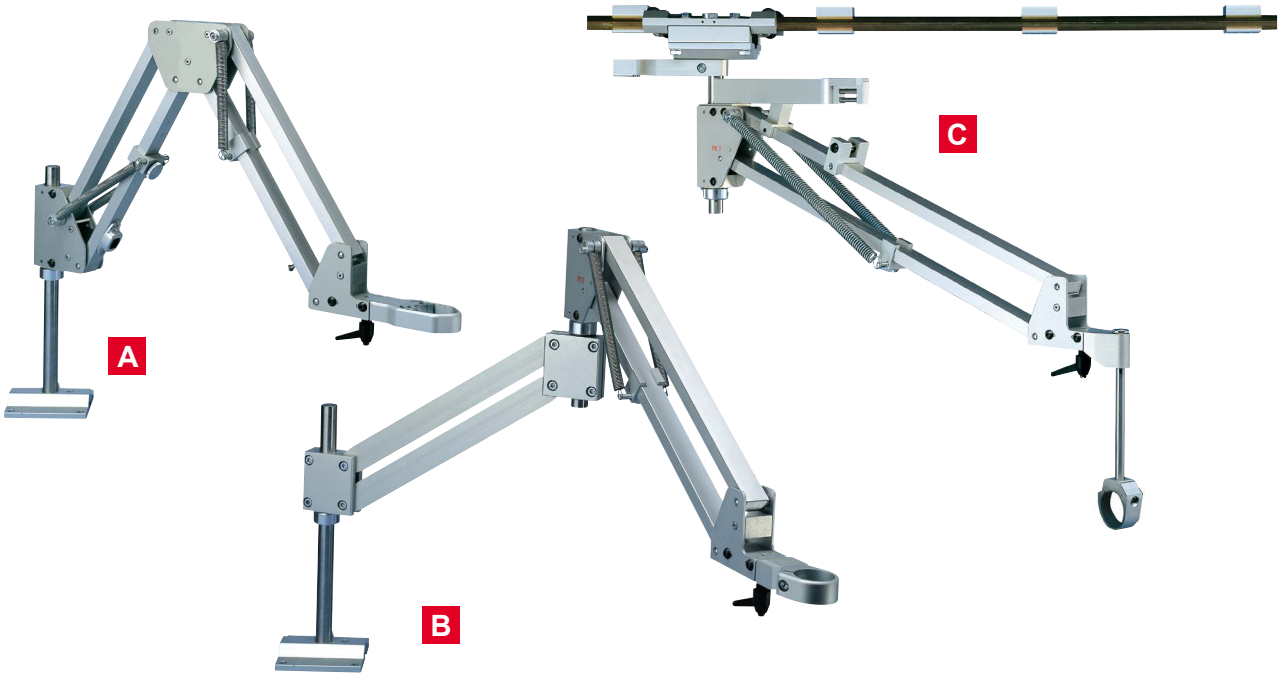
Tool clamp guide for TT arms

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP		ADD THE BALANCER KIT + BALANCER		ADD OPTIONS IF NEEDED
STEP 1	**STEP 2**	**STEP 3**		**STEP 4**		**STEP 5**
TOOL MODEL	**TT MODEL**	**TOOL CLAMP REFERENCE**	**PICTURE**	**BALANCER KIT AND BALANCER REFERENCES**		**OPTIONS**
SB, SC2, SD, SLC, ECD5 ECS(A-F), ERS(A-F) ERDL 1.5-12, SLBN	TT10 : 6158122600	6158122150	A	6158121410 Balancer DU fixation	4DU: 50532 / 4DU: 50532 5DU: 50542 / 4DU: 50532 5DU: 50542 / 5DU: 50542 5DU: 50542 / 5DU: 50542 5DU: 50542	Gravity center adjustment: 6158122030 Rigid fixation : 6158122110
SD 070/072, SLCP	TT10 : 6158122600	6158122180		6158121410 Balancer DU fixation	5DU: 50542	Gravity center adjustment: 6158122030 Rigid fixation : 6158122110
SH 70/150	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122200		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ECS (A-F), ERS (A-F) ECD30, SLBN 120 SD 130/140/160/220	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121610	A	6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
EID 25	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121950		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ECD20, ERDL	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121960		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570"
EFDE43-8/15	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121980		6158121450 Balancer D fixation	15D: 50062	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
MC35-20, MC38-10 EME35-20J, EME38-10J	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121970		6158121450 Balancer D fixation	15D: 50062	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
SH 200/280	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121990		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
EAD20, EAB© 15/26 ERAL 2-30/40, SDP 209/300 SH 150/280	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122000		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
ECA 15/20/30 ERAL 1,5-15/25/35	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122010		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
ERSA 12	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122020		6158121450 Balancer D fixation	10D: 50052	Gravity center adjustment : 6158121490 Rigid fixation : 6158121570
ERDL 1,5/2, ECD 30	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125750		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
EAB(C) 26/32/45, EAD 20/32	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128880		6158121450 Balancer D fixation	22D: 50072 15D: 50062	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
ECA 20/30/40/60	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128930		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
SH 420/500	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630"	6158129030 + 6158128940		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
EFDE(S) 43-30/45 EME 51-70, MC 51-10/20	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125420		6158125220 Balancer DF fixation	14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
EID 25/32/44	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125740 + 6158129010		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ERDL 1,5-30 ERDL 2-40/50	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125740 + 6158129020		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ERAL 2-60/80	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128890		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128890		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
SH 700	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128900		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128900		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
EAB(C,A) 50 EAD 50	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128910		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128910		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
EAB(C) 60	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128920		6158121450 Balancer D fixation	22D: 50072	Gravity center adjustment : 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128920		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100	22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ERAL 4-90/110/120	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128960		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100	22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
SH 850	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128970		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100	22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ECA 70/90/115/125/150	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100	22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ECA 70/90/115	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100	22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
ECA 125/150	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158125220 Balancer DF fixation	14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
EAD 70/80/105	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128950		6158125220 Balancer DF fixation	14DF: 6158050140 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350"
EID 65/75	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125770 + 6158129000		6158125220 Balancer DF fixation	14DF: 6158050140 for TT100 1700 / 17DF: 6158050150 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350
EFDE(S) 51-70	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125760		6158125220 Balancer DF fixation	17DF: 6158050150 for TT100 1700 / 21DF: 6158050160 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350"
EFDE 43-30/45 , MC 51-10/20 EME 51-10J/20J, EME 60-10	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125760		6158125220 Balancer DF fixation	14DF: 6158050140 for TT100 1700/ 17DF: 6158050150 for TT100 2100	Gravity center adjustment : 6158125390 Rigid fixation : 6158125350

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Balancing arms D57, D58, D59

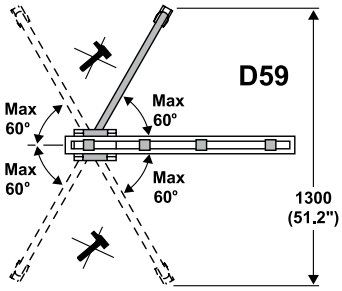


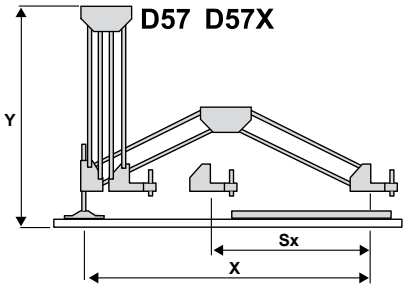
D57/D57X/D58 How To Order

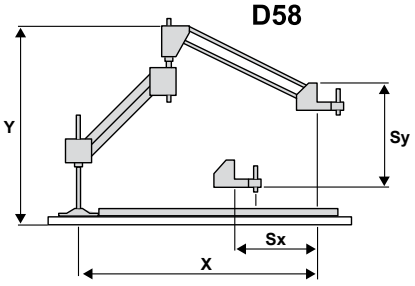
1. Basic Stand
2. Tool Holder
3. Optional Accessories

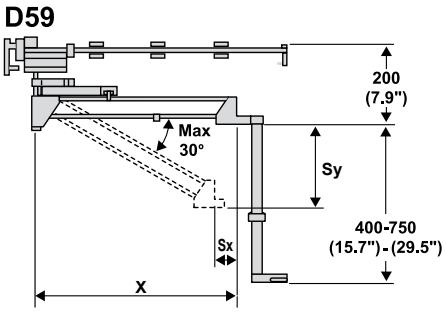
D59 How To Order

1. Basic Stand
2. Tool Holder
3. Rail (supplied per meter, e.g. for 3m order (3) of PN. 409213)
4. Rail End Stops (2 required per complete rail)
5. Optional Accessories







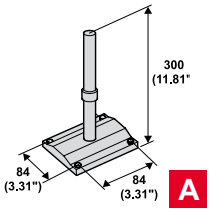


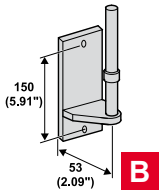
D57 / 58 / 59 BALANCING ARMS

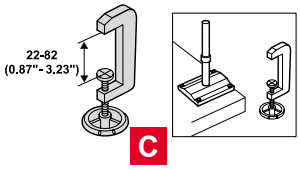
PIC REF.	MODEL	PART NUMBER	MAXIMUM TORQUE		OVERALL HORIZONTAL (X)		OVERALL VERTICAL (Y)		STROKE HORIZONTAL (SX)		STROKE VERTICAL (SY)		TOOL WEIGHT CAPACITY		ACCESSORIES INCLUDED
			N.m	ft.lb	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
A	D57	408903	20	14.75	700	25.55	550	21.6	510	20.7	95	3.74	2	4.4	BENCH MOUNT
A	D57X	408913	20	14.75	850	33.46	550	21.6	610	24.0	95	3.74	2	4.4	BENCH MOUNT
B	D58	408923	20	14.75	710	27.95	600	23.6	600	23.6	180	7.08	2	4.4	BENCH MOUNT
C	D59	408933	20	14.75	650	25.60	200	7.87	70	2.75	250	9.84	2	4.4	RAIL CARRIAGE

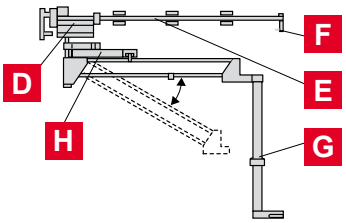
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Tool clamps





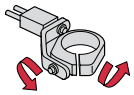
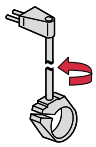
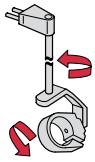




ACCESSORIES

ITEM	PART NO.	DESCRIPTION	D57 / D57X	D58	D59
A	408953	Bench Mount (Included with the stand)	✓	✓	
B	408963	Wall Mount Bracket	✓	✓	
C	408973	Table Stand Clamp	✓	✓	
•	408993	Heavy Duty Spring 1 - 2,5 kg	✓		
D	409253	Rail Carriage (Included with the stand)			✓
E	409213	Rail Per Meter			✓
F	409223	Rail End Stops			✓
G	409203	Telescopic Height Adjustments			✓
H	409233	Top Arrester / Vertical Lock			✓
H	409243	Side Arrester / Horizontal Lock			✓

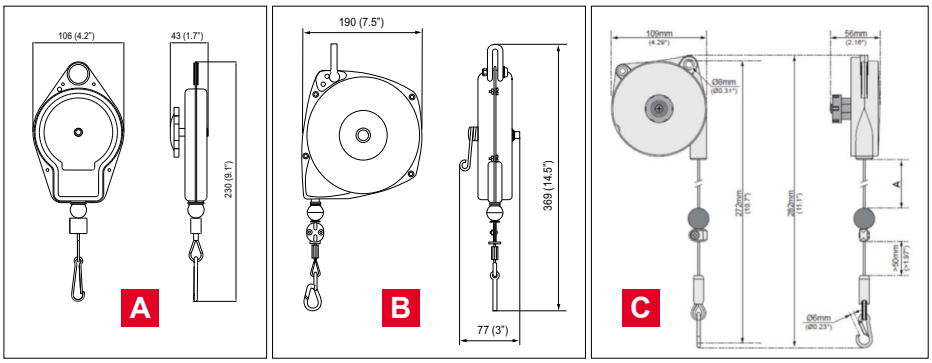
must also order top arrester when using side arrester

D57/58/59 TOOL CLAMPS	Ø28.5-41MM	Ø40-50MM	VERTICAL 2 AXIS ROTATION	HORIZONTAL SINGLE AXIS ROTATION	HORIZONTAL 2 AXIS ROTATION	ADAPTOR SLEEVE BLANK (supplied as standard with tool holders) to be machined to suit the tool
PART NO.	615 396 6140	615 396 6290	409083 Ø36mm (1.42) 409093 Ø46mm (1.8) 409103 Ø56mm (2.2)	409113 Ø36mm (1.42) 409123 Ø46mm (1.8) 409133 Ø56mm (2.2)	409173 Ø36mm (1.42) 409183 Ø46mm (1.8)	409273 Ø46mm (1.8) (OUTSIDE) Ø30mm (1.18) (INSIDE) 409023 Ø56mm (2.2) (OUTSIDE) Ø40mm (1.57) (INSIDE)
						
Pneumatic Screwdrivers						
						
SB / SBP	✓		409083	409113	409173	
SC2 / SCP / SCPT	✓		409083	409113	409173	
SD / SDP	✓		409093	409123	409183	Ring adaptor PN 409273 for SD
SH70 / SH150	✓		409093	409123	409183	
Electric Screwdrivers						
						
SLBN	✓		409093	409123	409183	Ring adaptor PN 409273
SLC (nose mount)	✓		409083	409113	409173	
SLC (top mount)		✓	409093	409123	409183	
ECS	✓		409083	409113	409173	
ECD5	✓		409083	409113	409173	
ERD5	✓		409083	409113	409173	
Drills						
						
DR 300	✓		409083	409113	409173	
DR 350				409113	409173	
DR 750				409123	409183	Ring adaptor PN 409273

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Balancers D, HU & R Series



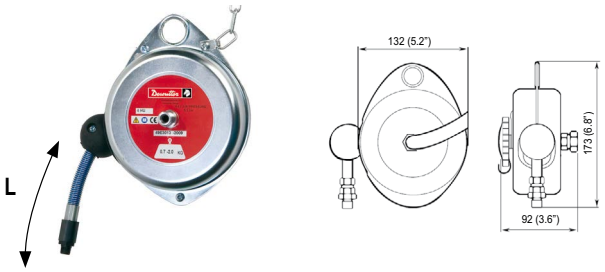


- Steel housing
- Nylon (pic A) Steel (pic B,C) cable
- Additional support chain included
- 10S / 15S / 22S with drum lock feature: operates only on spring failure

BALANCERS - 1DU - 22S

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY					
			kg	lb	kg	lb	m	ft	kg	lb
A	1DU	52542	0	0	0.5	1.1	1.5	4.9	0.6	1.3
	2DU	50522	0.5	1.1	1.0	2.2	1.5	4.9	0.6	1.3
	2DUS	54532	0.5	1.1	1.0	2.2	3.0	9.8	0.6	1.3
	3DU	52862	1.0	2.2	1.5	3.3	1.5	4.9	0.6	1.3
	4DU	50532	1.0	2.2	2.0	4.4	1.5	4.9	0.6	1.3
	5DU	50542	1.4	3.1	2.4	5.3	1.5	4.9	0.6	1.3
B	10D	50052	2.5	5.5	5.0	11.0	2.4	7.8	2.7	6.0
	15D	50062	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22D	50072	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1
	10S*	50572	2.0	4.4	5.0	11.0	2.4	7.8	2.7	6.0
	15S*	50582	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22S*	50592	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1
C	2DSB	615 812 791 0	0.4	0.88	1	2.2	1600	63	0.57	1.25
	2DSBX	615 812 794 0	0.4	0.88	1	2.2	3000	118.11	0.57	1.25
	4DSB	615 812 792 0	1	2.2	2	4.4	1600	63	0.6	1.32

** Balancers with drum lock features*



- Steel housing
- Additionnal support chain included
- Polyurethane hose
- 1/4" thread

HOSE BALANCERS - 1HU - 4HU

MODEL	PART NUMBER	LOAD RANGE				HOSE TRAVEL		HOSE ID		WEIGHT	
		MIN. CAPACITY		MAX. CAPACITY							
		kg	lb	kg	lb	m	ft	mm	in.	kg	lb
1HU	52552	0	0	0.5	1.1	1.5	4.9	6.5	1/4	1.2	2.6
3HU	50552	0.5	1.1	1.4	3.1	1.0	3.3	6.5	1/4	1.2	2.6
4HU	50562	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3
4HU-X*	205 148 128 4	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3

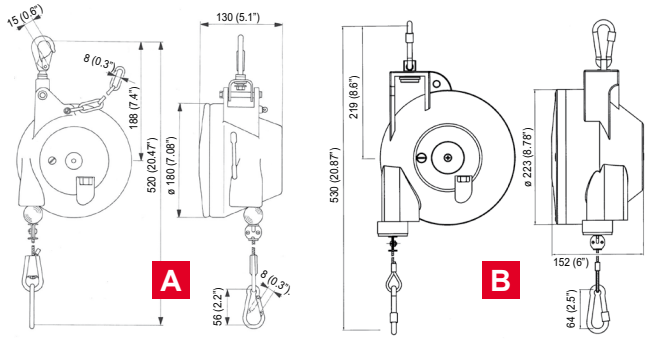
*Flow rate: 7.1 l/s (15cfm) - *L= 0.5*

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Balancers - DF & DFL Series



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant plastic and aluminum housing
- 360° swiveling safety hook for isolated suspension
- Screw-type safety hook for load suspension
- Standard safety chain
- Spring fracture safeguard, integrated drum lock



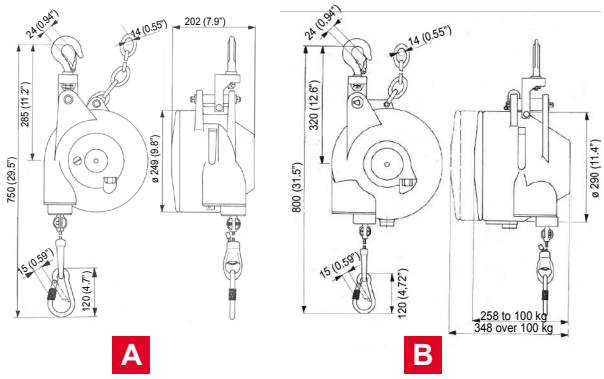
BALANCERS - 5DF - 55 DF

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY					
			kg	lb	kg	lb	m	ft	kg	lb
A	5DF	615 805 011 0	3.0	6.6	5.0	11.0	2.0	6.6	2.9	6.4
	7DF	615 805 012 0	4.5	9.9	7.0	15.4	2.0	6.6	3.1	6.8
	10DF	615 805 013 0	6.0	13.2	10.0	22.0	2.0	6.6	3.2	7.1
	14DF	615 805 014 0	9.0	19.8	14.0	30.9	2.0	6.6	3.4	7.5
	17DF	615 805 015 0	13.0	28.7	17.0	37.5	2.0	6.6	3.6	7.9
	21DF	615 805 016 0	16.0	35.3	21.0	46.3	2.0	6.6	3.8	8.4
B	25DF	615 805 017 0	15.0	33.1	25.0	55.1	2.0	6.6	7.8	17.2
	35DF	615 805 018 0	25.0	55.1	35.0	77.2	2.0	6.6	8.9	16.6
	45DF	615 805 019 0	35.0	77.2	45.0	99.2	2.0	6.6	9.5	20.9
	55DF	615 805 020 0	45.0	99.2	55.0	121.2	2.0	6.6	9.7	21.4

A Plastic housing B Aluminum housing



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant aluminum housing
- 360° swiveling safety hook
- Cable extension limit stop for overload protection
- Screw-type safety hook for load suspension
- Standard safety chain
- Standard spring fracture safeguard integrated drum lock
- Ferrule for securing cable end
- Freewheel device for protection against handling errors



BALANCERS - 20DFL - 200DFL

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY					
			kg	lb	kg	lb	m	ft	kg	lb
A	20DFL	615 805 021 0	12	26.5	20	44.1	2.0	6.6	14.8	32.6
	30DFL	615 805 022 0	20	44.1	30	66.1	2.0	6.6	15.2	33.5
	45DFL	615 805 023 0	30	66.1	45	99.2	2.0	6.6	16.9	37.2
	60DFL	615 805 024 0	45	99.2	60	132.3	2.0	6.6	17.3	38.1
	75DFL	615 805 025 0	60	132.3	75	165.3	2.0	6.6	18.7	41.2
	90DFL	615 805 026 0	75	165.3	90	198.4	2.0	6.6	19.7	43.4
	100DFL	615 805 027 0	90	198.4	100	220.4	2.0	6.6	20.9	46.1
B	115DFL	615 805 028 0	100	220.4	115	253.5	3.0	9.8	41.8	92.1
	130DFL	615 805 029 0	115	253.5	130	286.6	3.0	9.8	43.2	95.2
	140DFL	615 805 030 0	130	286.6	140	308.6	3.0	9.8	44.6	98.3
	150DFL	615 805 031 0	140	308.6	150	330.7	3.0	9.8	46.0	101.4
	170DFL	615 805 032 0	150	330.7	170	374.8	3.0	9.8	46.4	102.3
	180DFL	615 805 033 0	170	374.8	180	396.8	3.0	9.8	46.7	102.9
	190DFL	615 805 034 0	180	396.8	190	418.9	3.0	9.8	47.0	103.6
	200DFL	615 805 035 0	190	418.9	200	440.9	3.0	9.8	47.3	104.2

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Tool holsters

Desoutter Tool Holster - DTH42 - DTH-90

DTH-42

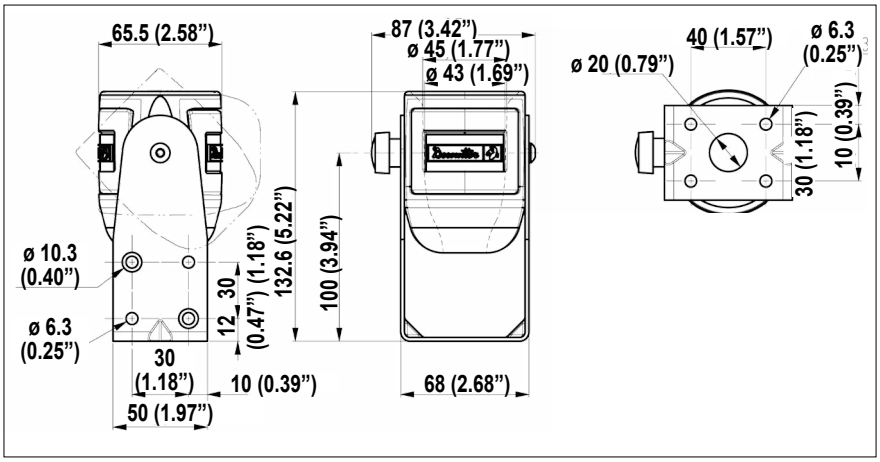
- Adapted for all **straight or pistol grip tools** with an outside diameter of maximum 42 mm
  The mounting plate can be fastened in **several positions** and the plastic ring angle can be set at **different angles**

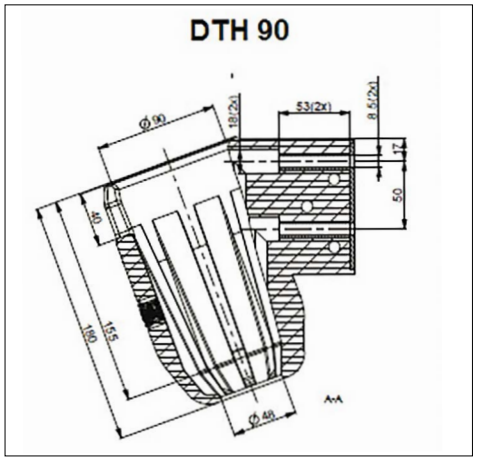


DTH-90

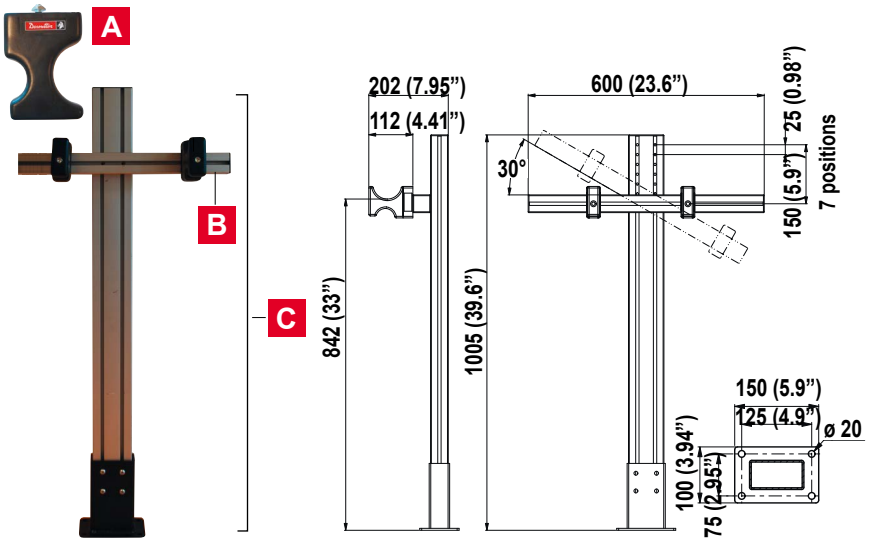
- Used for all **pistol grip tools** with an outside diameter of maximum 90 mm
  - Designed with 2 holes for tool sensors presence
  - Rubber material
  - Mounting screws included

PIC REF	PART NUMBER	DESCRIPTION	MAX. DIAMETER	
			mm	in.
A	107 892	DTH-42	42	1.65
B	615 812 119 0	DTH-90	90	3.54





Desoutter Tool Holster - DTH TWIN





PIC REF	PART NUMBER	DESCRIPTION
A*	615 811 411 0	DTH TWIN (single) without rail
B	615 811 412 5	DTH TWIN rail KIT with 2 TWIN holders
C	615 811 413 5	DTH TWIN stand kit with base & 2 TWIN holders

* Includes screw and fixation for rail type Bosch 10mm slot

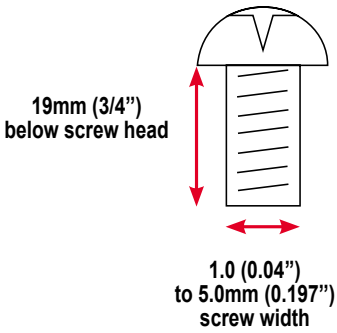
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ASD - Automatic screw dispenser

TO BE USED FOR THE ASSEMBLY OF:

- Electronics: TV, mobile phones, computers
- Medical products
- Small appliances





Boost your productivity and efficiency

- **Widest range of screw sizes:** between 1.0 (0.04") and 5.0mm (0.197") thread diameters (about 11 different screw sizes) including screws with captive washers and up to 19mm (3/4") screw length (under head)
- **Complete:** supplied with universal feeding rail to avoid buying additional and expensive spare rails
- **Fully adjustable:** vibration time, vibration intensity, and drum rotation time adjustments allow the user to optimize the screw feed rate
- **Quiet operation & easy to service**
- Includes: rail adjustment kit, AC adapter and ground wire

PART NUMBER	POWER PLUG	SCREW RANGE			RAIL ADJUSTMENT KIT	DIMENSIONS						POWER
		SIZE	LENGTH			L		H		W		
			mm	in.		mm	in.	mm	in.	mm	in.	
Automatic Screw Dispenser - ASD												
615 810 472 0	**UK**	M1.0 to M5.0	Up to 19 (under head)	Up to 3/4" (under head)	included	126	5	147	5.8	182	7.2	AC 100 ~ 240V
615 810 473 0	**EUR**	M1.0 to M5.0										
615 810 474 0	**US**	0.04" to 0.197"										

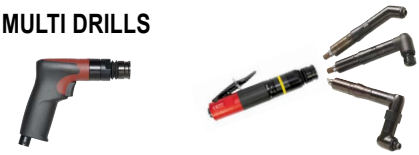
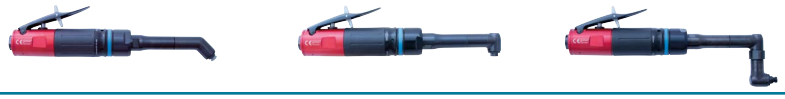
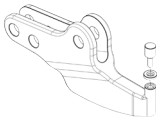
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Drilling and Riveting



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Drilling and Riveting - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
ADVANCED DRILLING UNIT 		180-183
MULTI DRILLS 		184-187
ANGLE DRILLS - Compact 30°, 45°, 90° & 360° Angle Head 		188
ANGLE DRILLS - Standard 45°, 90° & 360° Angle Head - Heavy Duty 90° Angle Head 		189-190
PISTOL GRIP DRILLS 		191-193
STRAIGHT GRIP DRILLS 		194
TAPPERS 		196
SPECIALITY TOOLS - Rivet Shaver & Rack - Rack Feed Drills 		197-199
RIVETING COMPRESSION TOOLS 		200-204
RIVETING HAMMERS 		205

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Automatic Drilling Unit

1 STEP OPERATION - DRILLING – REAMING - COUNTERSINKING



Part of Desoutter product portfolio, **Seti-Tec line** offers best-in classe performance, quality and reliability for the most demanding drilling applications worldwide.

Seti-Tec solutions have already been adopted by all major Aircraft manufacturers worlwide

This concept is dedicated to highly demanding drilling, reaming, countersinking applications, where quality, precision and repeatability are critical.

Its innovative design make one step drilling, reaming, countersinking possible, and will help driving down your cycle time.

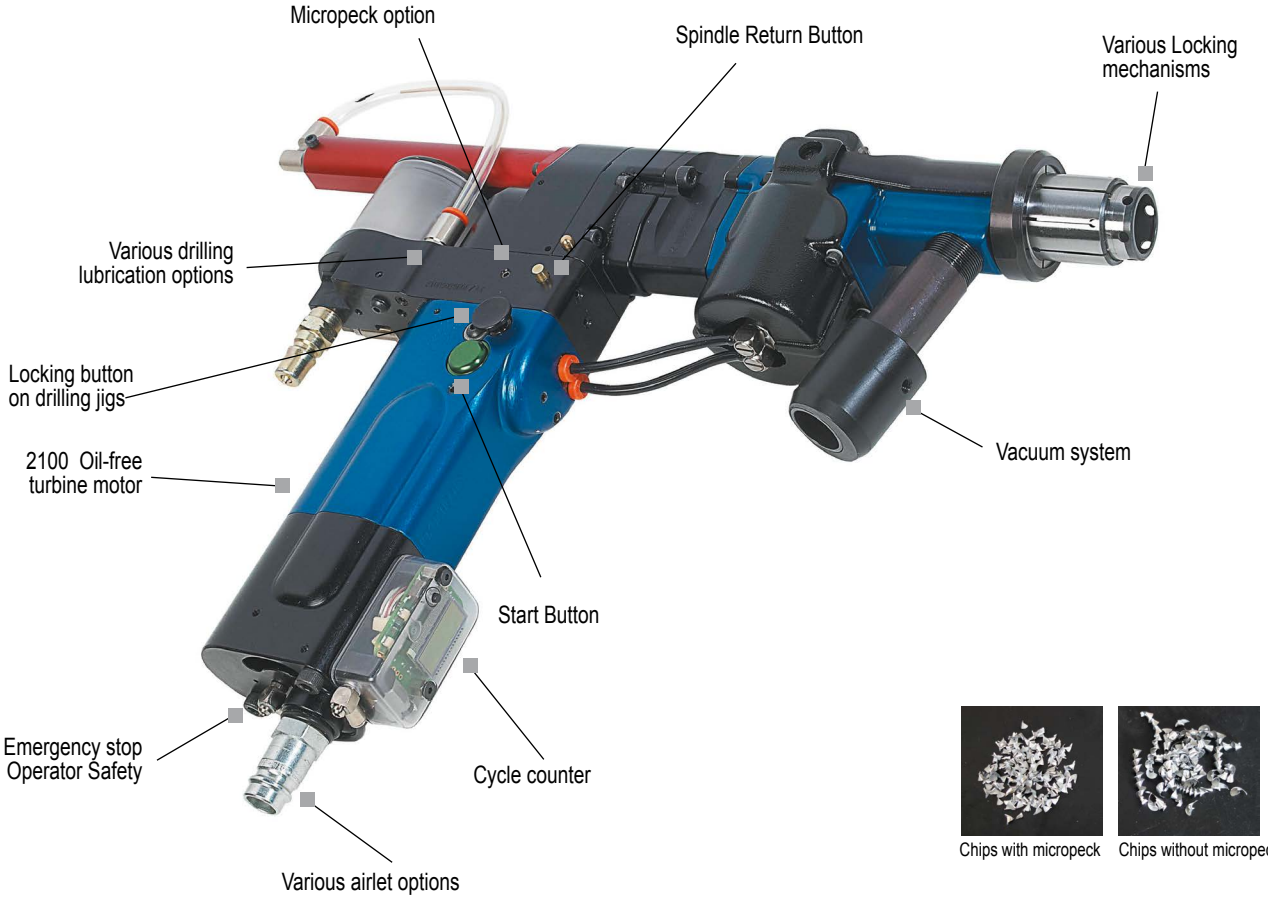
Its design based on modularity concept and the wide variety of clamping options will answer most of your applications.

In addition to the current ST1200 and ST220 pneumatic range, the Electric Drilling Unit range éVo is raising the drilling performance to a new standard.

1 STEP OPERATION — **PRODUCTIVY**

DRILLING
REAMING — **QUALITY**

COUNTERSINKING — **SAFETY**



Chips with micropeck

Chips without micropeck

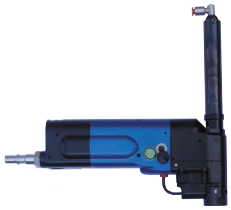
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Automatic Drilling Unit

MODULAR CONCEPT


ST1200 familly


Seti-Tec line Motor


ST2200 familly


Concentric Collet


Jack Clampling


Croco Clamping


¼ turn


Template foot


Crowfoot

TECHNICAL INFORMATION

Type:	**Automatic positive feed drill** Drill and countersink, precision depth 0.02mm	
	ST1200	**ST2200**
Power:	2.8 HP, with torque limiter at lower speed	
Weight:	1.5 kg (3.3lb)	4.2 kg (9.2lb)
Stroke:	Unlimited	Unlimited
Feed rate:	0.02 mm/rotation	0.04 mm/rotation
	0.04 mm/rotation	0.06 mm/rotation
	0.06 mm/rotation	0.10 mm/rotation
	0.08 mm/rotation	0.12 mm/rotation
	0.10 mm/rotation	0.14 mm/rotation
	0.12 mm/rotation	0.18 mm/rotation
	0.15 mm/rotation	0.20 mm/rotation
Upper feed rates possible to adapt.		
Rotation speed:	240 rpm	159 rpm
	500 rpm	250 rpm
	1000 rpm	300 rpm
	1700 rpm	540 rpm
	2400 rpm	700 rpm
	3000 rpm	800 rpm
	4600 rpm	900 rpm
	6500 rpm	1200 rpm
	8100 rpm	2600 rpm
	14000 rpm	3000 rpm
Available an right angle, inline and inline + handle		

HOLE DIAMETER	ALUMINIUM COMPOSITE	TITANIUM HARD METAL	ALUMINIUM COMPOSITE	TITANIUM
	Straight hole		Countersink hole	
<4,8mm - 3/16"	ST 1200	ST 1200	ST 1200	ST 1200
<6,35mm - 1/4"				
<7,9mm - 5/16"				
<9,5mm - 3/8"				
<11,1mm - 7/16"				
<12,7mm - 1/2"				
<14,3mm - 9/16"		ST 2200	ST 2200	ST 2200
<15,9mm - 5/8"				
<19,5mm - 3/4"	ST 2200			
<22,2mm - 7/8"				
<25,4mm - 1"				
Over 25,4mm - 1"				

	CONCENTRIC COLLET	BAYONET 1/4 TURN	CROCO CLAMP	JACK CLAMP	TEMPLATE FOOT	CROWFOOT
Thick jig	ST1200 ST2200					
Thick jig with rail or screws		ST1200 ST2200				ST1200 ST2200
Thick jig			ST1200	ST1200	ST1200	
No jig (pre-hole)			ST1200	ST1200	ST1200	


Special right angle

Any specific requirement can be handled by Seti-Tec line design team. Contact your Desoutter representative for assistance

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éVo

Seti-Tec latest innovation will raise your drilling performance and quality to an unprecedent level.
Cycle time reduction, quality control, full control over drilling parameters in a compact, user-friendly system.

PATENTED

RFID

Full modularity: 1 Motor unit for unlimited number of smart heads

Full compatibility with Seti-Tec ADU range

RFID Head identification

Quick-change head system

Patented WINCH system

TOOL CONTROL

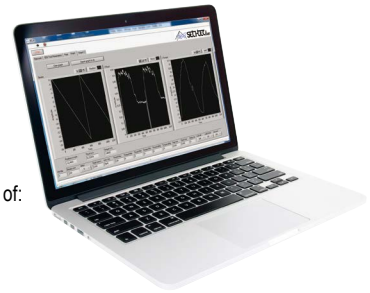
User-friendly LCD HMI

Trigger for tool clamping and head change

2 Robust, brushless motors for:
- Spindle Rotation
- Spindle Feed



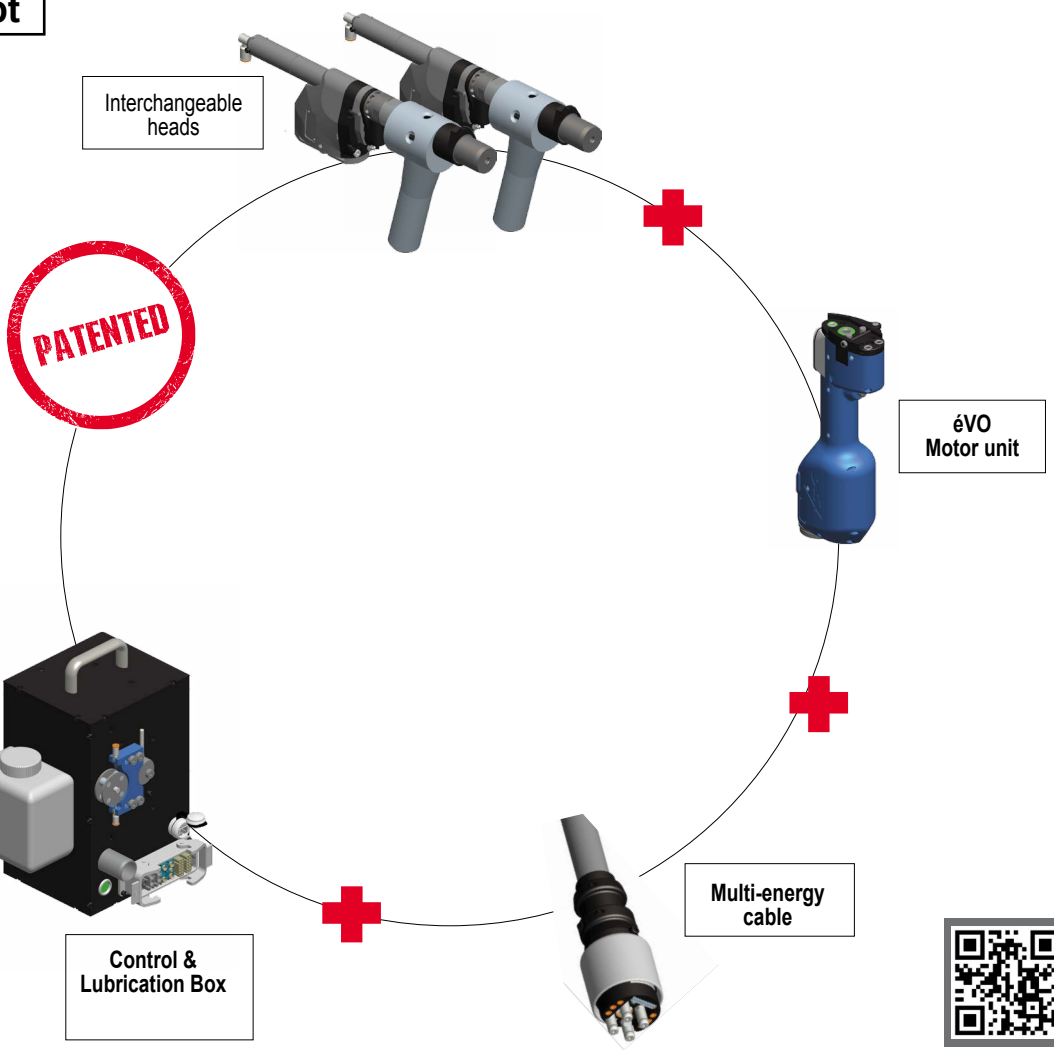
MULTI-ENERGY CABLE
- Power
- Air
- Signal
- Lubrication



éVo software
Full control and easy setup of:
- Spindle position, speed,
- Thrust & torque,
- Peck modes,
- Lubrication management

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éVo Concept



desouter.info/eVo

KEY POINTS

PRODUCTION OPTIMIZATION

CYCLE TIME REDUCTION
Feed rate and rotation adaptation based on real time material detection
Smart Lubrication → reduced Cleaning time

FLEXIBLE Line management
1 Motor unit = unlimited number of heads
Easy setting & change of drilling cycle parameters via dedicated software

QUALITY CONTROL

Real time drilling monitoring for detection of broken tools

Automatic detection of exit point
Real-time lubrication management
Ability for peck programmation
Detection of multi-stack gaps

SMART DRILLING

Autonomous drilling mode → self adaptation adaptation of drilling cycle
Unlimited drilling curve storage

Various Poka Yoké systems
Real time drilling monitoring

HEALTH & SAFETY

Reduced Environmental impact
Reduced consumption
Reduced lubrication pollution

Improved workplace
Limited operator's exposure to lubricant

MAINTENANCE OPTIMIZATION

Full modularity with ADU components
Cycle counter for cutting tool & heads
Access right management
Increased life time for cutting tools

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Drill Selection Guide

How to select your tool:
1 Select material 2 Select hole size 3 Define speed

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL 1	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	rpm		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
	Drill ø mm								
30°, 45°, 90°, 360° COMPACT HEAD									
DR300-QR	5500	–	–	–	–	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	4500	–	–	–	–	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	3000 3	–	–	–	3.0 (1/8") 2	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")	–
DR300-T5/S5	2000	–	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	–	–	–	–
	1000	–	4.0 (5/32")	5.0 (3/16")	–	–	–	–	–
45°, 90°, 360° STANDARD HEAD									
DR300-QR	5500	–	–	–	–	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	4500	–	–	–	–	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	3000	–	–	–	3.0 (1/8")	5.0 (3/16")	6.5 (1/4")	6.5 (1/4")	–
DR300-T6/S6	2000	–	3.0 (1/8")	4.0 (5/32")	6.5 (1/4")	6.5 (1/4")	–	6.5 (1/4")	–
	1000	–	4.0 (5/32")	6.0 (1/4")	6.5 (1/4")	–	–	–	–
	550	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	–	–	–	–	–
90° HEAD DUTY									
DR300-THD/SHD	2000	–	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")
	900	–	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	–	–	–	–
	2000	–	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")
	900	–	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	–	–	–	–
PISTOL GRIP									
DR350	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4"
	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1000		4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						
DR500	18500							4.0 (5/32")	2.0 (5/64")
ø8-13 mm (5/16" - 1/2") cap.	5800						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4300					3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	12.0 (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	8.0 (5/16")	12.0 (1/2")	
	1800		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1400		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0 (7/16")			
	1000		5.0 (3/16")	6.0 (1/4")	10.0 (13/32")				
	600	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	12.0 (1/3")				
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					
DR750	20000						2.0 (5/64")	2.0 (5/64")	
ø8-13 mm (5/16" - 1/2") cap.	6000						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4100					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")
	3300				3.0 (1/8")	4.0 (5/32")	8.0 (5/16")	10.0 (13/32")	12.0* (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	10.0 (13/32")	13.0* (1/2")	15.0* (19/32")
	1300		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0* (7/16")	19.0* (3/4")		30.0* (13/16")
	750	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	15.0* (19/32")	19.0* (3/4")	30.0* (13/16")		
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					
STRAIGHT CASE									
DR300-T	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")			
	1000	3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						

** above standard chuck capacity*

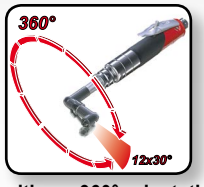
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Multi Drills





- Modular product range to boost you productivity.
- Full flexibility for difficult access applications.
- Lightweight and excellent ergonomics.
- Robust built, reliable design and excellent run-out.



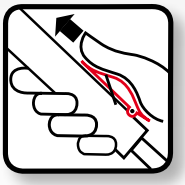
12 positions, 360° orientation

Flexibility
Excellent accessibility



Quick-Release head

Productivity
1 tool for all applications



Safety
Ergonomics
Low weight
Low sound levels
Vacuum kits options



** Possibility to use ER collets with straight Quick Release attachment See p.202 for all details*

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Multi-Drills



A
DR350 Series
350 W (0.5hp) / 1000 to 5500 rpm



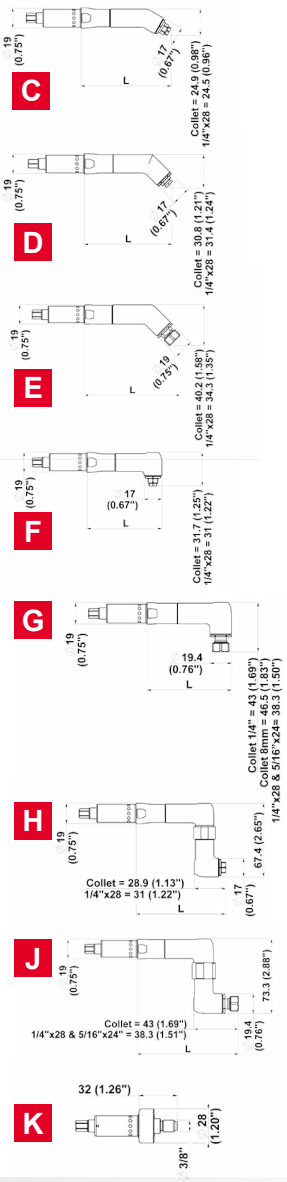
B
DR300 Series
300 W (0.4hp) / 550 to 5500 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
			rpm	W	hp	kg	lb	mm	in.	l/s	cfm	in.
MULTI-DRILLS - PISTOL												
A	DR350-P5500-QR	205 147 984 4	5500	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P4500-QR	205 147 983 4	4500	350	0.5	0.50	1.10	169	6,65	9.5	20	1/4
A	DR350-P3000-QR	205 147 528 4	3000	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P1000-QR	205 147 981 4	1000	350	0.5	0.58	1.27	187	7.36	9.5	20	1/4
Other speed on request (550 & 2000 rpm)												
MULTI-DRILLS - STRAIGHT												
B	DR300-T5500-QR	615 176 071 0	5500	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
B	DR300-T4500-QR	615 176 070 0	4500	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
B	DR300-T3000-QR	615 176 069 0	3000	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
B	DR300-T2000-QR	615 176 068 0	2000	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
B	DR300-T1000-QR	615 176 067 0	1000	300	0.4	0.61	1.34	195.5	7.7	9.5	20	1/4
B	DR300-T550-QR	615 176 066 0	550	300	0.4	0.61	1.34	195.5	7.7	9.5	20	1/4

All models: Hose int. 6 mm (1/4")

QUICK RELEASE HEADS

PIC REF	DESIGNATION	PART NUMBER	LENGTH L		COLLET MAX. CAPACITY		WEIGHT	
			mm	in.	mm	in.	kg	lb
COMPACT ANGLE HEADS								
C	Short Compact 90° angle head Collet spindle	205 053 981 3	54.0	2.13	5.0	3/16	0.15	0.33
C	Compact 90° angle head Collet spindle	205 050 331 3	72.0	2.83	5.0	3/16	0.17	0.37
C	Compact 90° angle head 1/4" x 28 spindle	205 050 332 3	72.0	2.83	-	-	0.17	0.37
D	Compact 30° angle head Collet spindle	205 050 329 3	82.9	3.26	5.0	3/16	0.17	0.37
D	Compact 30° angle head 1/4" x 28 spindle	205 050 330 3	82.9	3.26	-	-	0.17	0.37
E	Compact 45° angle head Collet spindle	205 050 335 3	81.0	3.19	5.0	3/16	0.17	0.37
E	Compact 45° angle head 1/4" x 28 spindle	205 050 336 3	79.0	3.11	-	-	0.17	0.37
F	Compact 360° angle head Collet spindle	205 050 333 3	81.5	3.21	5.0	3/16	0.25	0.55
F	Compact 360° angle head 1/4" x 28 spindle	205 050 334 3	85.2	3.35	-	-	0.25	0.55
STANDARD ANGLE HEADS								
G	Standard 90° angle head Collet spindle	205 050 338 3	75.7	2.98	6.4	1/4	0.23	0.51
G	Standard 90° angle head Collet spindle	205 050 353 3	75.7	2.98	8.0	5/16	0.23	0.51
G	Standard 90° angle head 1/4" x 28 spindle	205 050 339 3	75.7	2.98	-	-	0.24	0.53
G	Standard 90° angle head 5/16" x 24 spindle	205 050 340 3	75.7	2.98	-	-	0.23	0.51
H	Standard 45° angle head Collet spindle	615 398 702 5	90.7	3.57	6.4	1/4	0.23	0.51
H	Standard 45° angle head 1/4" x 28 spindle	615 398 704 5	87.9	3.46	-	-	0.23	0.51
J	Standard 360° angle head Collet spindle	205 050 341 3	96.8	3.81	6.4	1/4	0.32	0.70
J	Standard 360° angle head 1/4" x 28 spindle	205 050 342 3	94.5	3.72	-	-	0.32	0.70
J	Standard 360° angle head 5/16" x 24 spindle	205 050 343 3	94.5	3.72	-	-	0.32	0.70
STRAIGHT HEAD								
K	Chuck mounting 3/8" x 24	205 050 543 3	32.0	1.26	-	-	0.25	0.55



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Muti Drills - Accessories

Collet for Compact Angle Heads: C, D, E & F (30°, 45°, 90° & 360°)



COLLET CAPACITY	PART NO.
ø 0.8mm	2152
ø 0.9mm	2162
ø 1.0mm	2172
ø 1.1mm	2182
ø 1.2mm	2192
ø 1.3mm	2202
ø 1.4mm	2212
ø 1.5mm	2222
ø 1.6mm	2232
ø 1.7mm	2242

COLLET CAPACITY	PART NO.
ø 1.8mm	2252
ø 1.9mm	2262
ø 2.0mm	2272
ø 2.1mm	2282
ø 2.2mm	2292
ø 2.3mm	2302
ø 2.4mm	2312
ø 2.5mm	2322
ø 2.6mm	2332
ø 2.7mm	2342

COLLET CAPACITY	PART NO.
ø 2.8mm	2352
ø 2.9mm	2362
ø 3.0mm	2372
ø 3.1mm	2382
ø 3.2mm	2392
ø 3.3mm	2402
ø 3.4mm	2412
ø 3.5mm	2422
ø 3.6mm	2432
ø 3.7mm	2442

COLLET CAPACITY	PART NO.
ø 3.8mm	2452
ø 3.9mm	2462
ø 4.0mm	2472
ø 4.1mm	2482
ø 4.2mm	2492
ø 4.3mm	2502
ø 4.4mm	2512
ø 4.5mm	2522
ø 4.6mm	2532
ø 4.7mm	2542

COLLET CAPACITY	PART NO.
ø 4.8mm	2552
ø 4.9mm	2562
ø 5.0mm	2572
ø 1/16"	91442
ø 3/32"	91452
ø 1/8"	91462
ø 5/32"	91472
ø 11/64"	108172
ø 3/16"	91482

Collet for Standard Angle Heads: G, H & J (45°, 90°, 360°)



COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922
ø 1.8mm	18932
ø 2.0mm (5/64")	18942
ø 2.2mm	18952
ø 2.4mm	18962
ø 2.6mm	18972
ø 2.8mm (7/64")	18982

COLLET CAPACITY	PART NO.
ø 3.0mm	18992
ø 3.2mm (1/8")	19002
ø 3.4mm	19022
ø 3.6mm (9/64")	19032
ø 3.8mm	19042
ø 4.0mm (5/32")	19052
ø 4.2mm	19062

COLLET CAPACITY	PART NO.
ø 4.4mm (11/64")	19072
ø 4.6mm	19082
ø 4.8mm (3/16")	19092
ø 5.0mm	19102
ø 5.2mm (13/64")	19122
ø 5.4mm	19132
ø 5.6mm (7/32")	19142

COLLET CAPACITY	PART NO.
ø 5.8mm	19152
ø 6.0mm (15/64")	19162
ø 6.2mm	19172
ø 6.4mm (1/4")	19182

Collet for Standard Angle Head: P.N. 205 050 353 3



COLLET CAPACITY	PART NO.
ø 3.0mm	615 526 069 0
ø 3.5mm	615 526 070 0
ø 4.0mm	615 526 071 0
ø 4.5mm	615 526 073 0

COLLET CAPACITY	PART NO.
ø 5.0mm	615 526 075 0
ø 5.2mm	615 526 076 0
ø 5.5mm	615 526 077 0
ø 5.9mm	615 526 078 0

COLLET CAPACITY	PART NO.
ø 6.0mm	615 526 079 0
ø 6.3mm	615 526 080 0
ø 6.5mm	615 526 081 0
ø 7.0mm	615 526 083 0

COLLET CAPACITY	PART NO.
ø 7.5mm	615 526 084 0
ø 7.7mm	615 526 085 0
ø 7.9mm	615 526 087 0
ø 8.0mm	615 526 088 0







ACCESSORIES INCLUDED

ITEM		PART NO.
With DR300		
2	Safety lever	205 051 259 3
With Angle heads C, D, E & F		
3	Collet ø 4.8mm (3/16") capacity	2552
•	Flat wrench	615 802 069 0
•	Flat wrench	615 802 070 0
With Angle heads G & H		
4	Collet ø 6.4mm (1/4") capacity	19182
•	Flat wrenches 10mm	82623



COLOUR IDENTIFICATION		DR350 SPEED rpm	DR350 PART NO.
Black		20000	205 049 447 3
Orange		5500	205 055 003 3
Purple		4500	205 055 004 3
Blue		3000	205 055 005 3

COLOUR IDENTIFICATION		DR350 SPEED rpm	DR350 PART NO.
Red		2000	205 055 006 3
Green		1000	205 055 007 3
Yellow		550	205 055 008 3
Grey		-	-

OTHER OPTIONAL ACCESSORIES



ITEM		PART NO.
1	Short lever	205 050 299 3
4	Start button	615 399 266 0
5	Side handle	615 399 265 0
•	Keyed chuck C6 - 3/8"x24 (Cap. 0.5 to 6.5mm)	205 055 272 3
•	Keyed chuck C8 - 3/8"x24 (Cap. 0.5 to 8mm)	205 053 013 3
•	Flat wrenches 8-9.5mm for Angle heads C, D, E & F	268263

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Angle Drills

Compact Head - Max capacity: 5mm (3/16")
Collet & 1/4" x 28 Spindle



A

DR300-T...-T/S5-30 Series
300 W (0.4hp) / 1000 to 5500 rpm



B

DR300-T...-T/S5-45 Series
300 W (0.4hp) / 550 to 5500 rpm



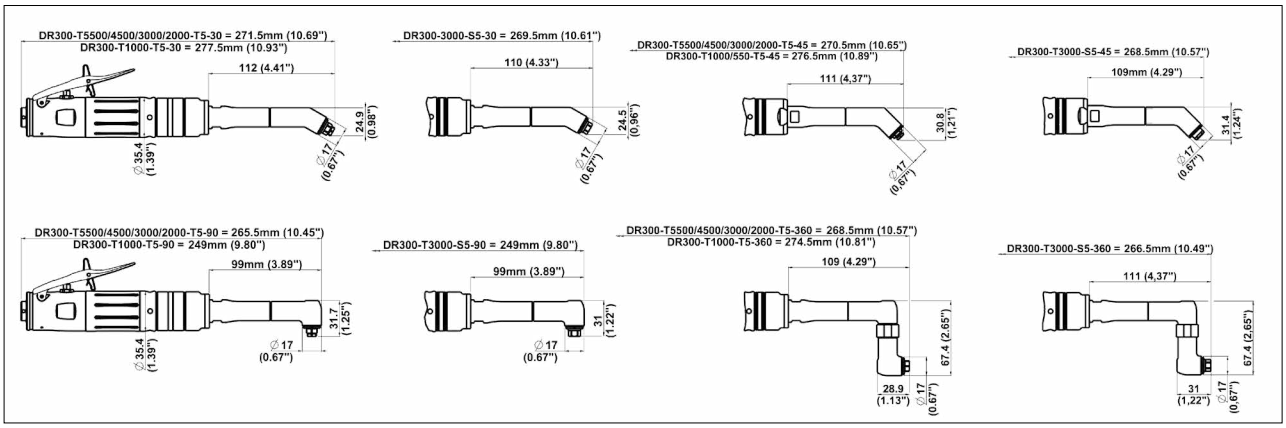
C

DR300-T...-T/S5-90 Series
300 W (0.4hp) / 1000 to 5500 rpm



D

DR300-T...-T/S5-360 Series
300 W (0.4hp) / 1000 to 5500 rpm



ACCESSORIES
see page 190

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT	
					rpm	W	hp	kg	lb
	30° - COLLET SPINDLE		**30° - 1/4" x 28 SPINDLE**		**Max. capacity: 5mm (3/16")**				
A	DR300-T5500-T5-30	615 176 077 0	DR300-T5500-S5-30		5500	300	0.4	0.66	1.45
A	DR300-T4500-T5-30	615 176 076 0	DR300-T4500-S5-30		4500	300	0.4	0.66	1.45
A	DR300-T3000-T5-30	615 176 074 0	DR300-T3000-S5-30	615 176 075 0	3000	300	0.4	0.66	1.45
A	DR300-T2000-T5-30	615 176 073 0	DR300-T2000-S5-30		2000	300	0.4	0.66	1.45
A	DR300-T1000-T5-30	615 176 072 0	DR300-T1000-S5-30		1000	300	0.4	0.76	1.67
	45° - COLLET SPINDLE		**45° - 1/4" x 28 SPINDLE**		**Max. capacity: 5mm (3/16")**				
B	DR300-T5500-T5-45	615 176 096 0	DR300-T5500-S5-45		5500	300	0.4	0.67	1.47
B	DR300-T4500-T5-45	615 176 095 0	DR300-T4500-S5-45		4500	300	0.4	0.67	1.47
B	DR300-T3000-T5-45	615 176 093 0	DR300-T3000-S5-45	615 176 094 0	3000	300	0.4	0.67	1.47
B	DR300-T2000-T5-45	615 176 092 0	DR300-T2000-S5-45		2000	300	0.4	0.67	1.47
B	DR300-T1000-T5-45	615 176 091 0	DR300-T1000-S5-45		1000	300	0.4	0.76	1.67
B	DR300-T550-T5-45	615 176 090 0	DR300-T550-S5-45		550	300	0.4	0.76	1.67
	90° - COLLET SPINDLE		**90° - 1/4" x 28 SPINDLE**		**Max. capacity: 5mm (3/16")**				
C	DR300-T5500-T5-90	615 176 083 0	DR300-T5500-S5-90		5500	300	0.4	0.68	1.5
C	DR300-T4500-T5-90	615 176 082 0	DR300-T4500-S5-90		4500	300	0.4	0.68	1.5
C	DR300-T3000-T5-90	615 176 080 0	DR300-T3000-S5-90	615 176 081 0	3000	300	0.4	0.68	1.5
C	DR300-T2000-T5-90	615 176 079 0	DR300-T2000-S5-90		2000	300	0.4	0.68	1.5
C	DR300-T1000-T5-90	615 176 078 0	DR300-T1000-S5-90		1000	300	0.4	0.78	1.72
	360° - COLLET SPINDLE		**360° - 1/4" x 28 SPINDLE**		**Max. capacity: 5mm (3/16")**				
D	DR300-T5500-T5-360	615 176 089 0	DR300-T5500-S5-360		5500	300	0.4	0.74	1.63
D	DR300-T4500-T5-360	615 176 088 0	DR300-T4500-S5-360		4500	300	0.4	0.74	1.63
D	DR300-T3000-T5-360	615 176 086 0	DR300-T3000-S5-360	615 176 087 0	3000	300	0.4	0.74	1.63
D	DR300-T2000-T5-360	615 176 085 0	DR300-T2000-S5-360		2000	300	0.4	0.74	1.63
D	DR300-T1000-T5-360	615 176 084 0	DR300-T1000-S5-360		1000	300	0.4	0.84	1.85

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

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Angle Drills

Standard Head - Max capacity: 6.4mm (1/4")
Collet & 1/4" x 28 Spindle



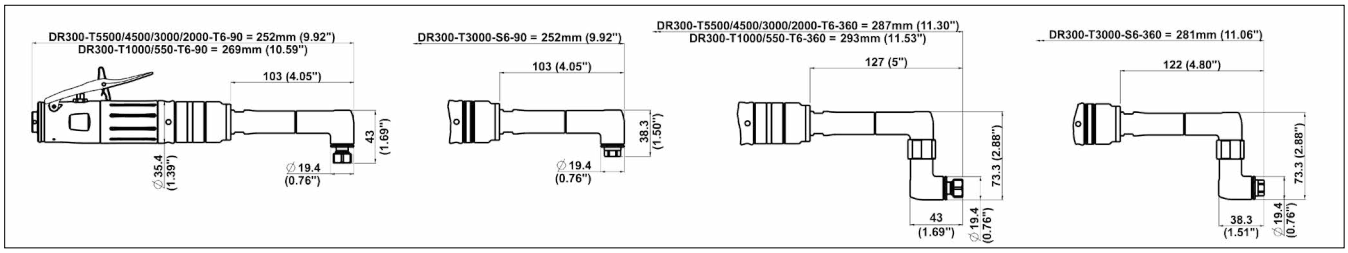
A

DR300-T...-T/S6-90 Series
300 W (0.4hp) / 550 to 5500 rpm



B

DR300-T...-T/S6-360 Series
300 W (0.4hp) / 550 to 5500 rpm



ACCESSORIES
see page 190

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT	
					rpm	W	hp	kg	lb
	90° - COLLET SPINDLE		**90° - 1/4" x 28 SPINDLE**		**Max. capacity: 6.4mm (1/4")**				
A	DR300-T5500-T6-90	615 176 103 0	DR300-T5500-S6-90		5500	300	0.4	0.7	1.54
A	DR300-T4500-T6-90	615 176 102 0	DR300-T4500-S6-90		4500	300	0.4	0.7	1.54
A	DR300-T3000-T6-90	615 176 100 0	DR300-T3000-S6-90	615 176 101 0	3000	300	0.4	0.7	1.54
A	DR300-T2000-T6-90	615 176 099 0	DR300-T2000-S6-90		2000	300	0.4	0.7	1.54
A	DR300-T1000-T6-90	615 176 098 0	DR300-T1000-S6-90		1000	300	0.4	0.79	1.74
A	DR300-T550-T6-90	615 176 097 0	DR300-T550-S6-90		550	300	0.4	0.79	1.74
	360° - COLLET SPINDLE		**360° - 1/4" x 28 SPINDLE**		**Max. capacity: 6.4mm (1/4")**				
B	DR300-T5500-T6-360	615 176 110 0	DR300-T5500-S6-360		5500	300	0.4	0.82	1.81
B	DR300-T4500-T6-360	615 176 109 0	DR300-T4500-S6-360		4500	300	0.4	0.82	1.81
B	DR300-T3000-T6-360	615 176 107 0	DR300-T3000-S6-360	615 176 108 0	3000	300	0.4	0.82	1.81
B	DR300-T2000-T6-360	615 176 106 0	DR300-T2000-S6-360		2000	300	0.4	0.82	1.81
B	DR300-T1000-T6-360	615 176 105 0	DR300-T1000-S6-360		1000	300	0.4	0.91	2
B	DR300-T550-T6-360	615 176 104 0	DR300-T550-S6-360		550	300	0.4	0.91	2

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Heavy Duty 90° Angle Head



A

DR300-T...-THD-90 Series
300 W (0.4hp) / 900 & 2000 rpm



B

DR300-T...-SHD-90 Series
300 W (0.4hp) / 900 & 2000 rpm

ACCESSORIES
see page 190

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
			rpm	W	hp	kg	lb	mm	in.	l/s	cfm.	in.
90° - COLLET SPINDLE Max capacity: 8mm (5/16")												
A	DR300-T2000-THD-90	615 176 111 0	2000	300	0.4	0.73	1.61	189,5	7,46	9.5	20	1/4
A	DR300-T900-THD-90	615 176 112 0	900	300	0.4	0.83	1.83	206	8,11	9.5	20	1/4
A	DR300-T600-THD-90	615 176 116 0	600	300	0,4	0,83	1.83	206	8,11	9,5	20	1/4
90° - KEY CHUCK Max capacity: 8mm (5/16")												
B	DR300-T2000-SHD-90	615 176 113 0	2000	300	0.4	0.86	1.89	189,5	7,46	9.5	20	1/4
B	DR300-T900-SHD-90	615 176 114 0	900	300	0.4	0.96	2.11	206	8,11	9.5	20	1/4
B	DR300-T600-SHD-90	615 176 117 0	600	300	0,4	0.96	2.11	206	8,11	9,5	20	1/4

All models: Air flow: Hose int. 6 mm (1/4")

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Accessories for Angle Drills



Collet for Compact Angle Drills DR300-T5.. - Maximum capacity: 5 mm (3/16")

COLLET CAPACITY	PART NO.
ø 0.8mm	2152
ø 0.9mm	2162
ø 1.0mm	2172
ø 1.1mm	2182
ø 1.2mm	2192
ø 1.3mm	2202
ø 1.4mm	2212
ø 1.5mm	2222
ø 1.6mm	2232
ø 1.7mm	2242

COLLET CAPACITY	PART NO.
ø 1.8mm	2252
ø 1.9mm	2262
ø 2.0mm	2272
ø 2.1mm	2282
ø 2.2mm	2292
ø 2.3mm	2302
ø 2.4mm	2312
ø 2.5mm	2322
ø 2.6mm	2332
ø 2.7mm	2342

COLLET CAPACITY	PART NO.
ø 2.8mm	2352
ø 2.9mm	2362
ø 3.0mm	2372
ø 3.1mm	2382
ø 3.2mm	2392
ø 3.3mm	2402
ø 3.4mm	2412
ø 3.5mm	2422
ø 3.6mm	2432
ø 3.7mm	2442

COLLET CAPACITY	PART NO.
ø 3.8mm	2452
ø 3.9mm	2462
ø 4.0mm	2472
ø 4.1mm	2482
ø 4.2mm	2492
ø 4.3mm	2502
ø 4.4mm	2512
ø 4.5mm	2522
ø 4.6mm	2532
ø 4.7mm	2542

COLLET CAPACITY	PART NO.
ø 4.8mm	2552
ø 4.9mm	2562
ø 5.0mm	2572
ø 1/16"	91442
ø 3/32"	91452
ø 1/8"	91462
ø 5/32"	91472
ø 11/64"	108172
ø 3/16"	91482



Collet for Standard Angle Drills DR300-T6.. - Maximum capacity: 6.4 mm (1/4")

COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922
ø 1.8mm	18932
ø 2.0mm (5/64")	18942
ø 2.2mm	18952
ø 2.4mm	18962
ø 2.6mm	18972
ø 2.8mm (7/64")	18982

COLLET CAPACITY	PART NO.
ø 3.0mm	18992
ø 3.2mm (1/8")	19002
ø 3.4mm	19022
ø 3.6mm (9/64")	19032
ø 3.8mm	19042
ø 4.0mm (5/32")	19052
ø 4.2mm	19062

COLLET CAPACITY	PART NO.
ø 4.4mm (11/64")	19072
ø 4.6mm	19082
ø 4.8mm (3/16")	19092
ø 5.0mm	19102
ø 5.2mm (13/64")	19122
ø 5.4mm	19132
ø 5.6mm (7/32")	19142

COLLET CAPACITY	PART NO.
ø 5.8mm	19152
ø 6.0mm (15/64")	19162
ø 6.2mm	19172
ø 6.4mm (1/4")	19182



Collet for Heavy Duty Angle Drills DR300-THD.. - Maximum capacity: 8 mm (5/16")

COLLET CAPACITY	PART NO.
ø 2.4mm (3/32")	2592
ø 2.6mm	2602
ø 2.8mm (7/64")	2612
ø 3.0mm	2622
ø 3.2mm (1/8")	2632
ø 3.4mm	2642
ø 3.6mm (9/64")	2652
ø 3.8mm	2662

COLLET CAPACITY	PART NO.
ø 4.0mm (5/32")	2672
ø 4.2mm	2682
ø 4.4mm	2692
ø 4.6mm	2702
ø 4.8mm (3/16")	2712
ø 5.0mm	2722
ø 5.2mm	2732
ø 5.4mm	2742

COLLET CAPACITY	PART NO.
ø 5.6mm	2752
ø 5.8mm	2762
ø 6.0mm	2772
ø 6.2mm	2782
ø 6.4 (1/4")	2792
ø 6.6mm	2802
ø 6.8mm	2812
ø 7.0mm	2822

COLLET CAPACITY	PART NO.
ø 7.2mm	2832
ø 7.4mm	2842
ø 7.6mm	2852
ø 7.8mm	2862
ø 8.0mm (5/16")	2872

ACCESSORIES INCLUDED



ITEM		COMPACT DR300-T5..	STANDARD DR300-T6..	COMPACT DR300-S5	STANDARD DR300-S6	HEAVY DUTY DR300-THD	DR300-SHD
		COLLET SPINDLE		1/4" X 28 SPINDLE		COLLET	CHUCK
1	ø 4.8mm (3/16") capacity collet	2552					
2	ø 6.4mm (1/4") capacity collet		19182				
3	ø 8mm (5/16") capacity collet					2872	
4	Chuck threaded 3/8" UNF - cap 8mm (5/16") with key						205 053 013 3
.	Chuck key						410213
5	Safety lever	205 051 259 3	205 051 259 3	205 051 259 3	205 051 259 3	205 051 259 3	205 051 259 3
•	Flat wrench 8-9.5mm	268263					
•	Flat wrenches 10mm		82623				





OTHER OPTIONAL ACCESSORIES

ITEM		DR300-T5.. DR300-S5..	DR300-T6.. DR300-S6..	DR300-THD..	DR300-SHD..
6	Inlet button with lever recess plugs	615 399 266 0	615 399 266 0	615 399 266 0	
7	Short lever	205 050 299 3	205 050 299 3	205 050 299 3	205 050 299 3
8	Side handle				615 399 265 0

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Pistol Grip Drills





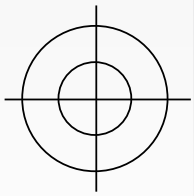
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How to make the right selection?





1 Material drilled



2 Diameter



3 Tool power & speed



4 Accessory for each application

Tool range

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DR350



DR500



DR750

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Pistol Grip Drills



A
DR350 Series
350 W (0.5hp) / 550 to 20000 rpm



B
DR500 Series
500 W (0.68hp) / 400 to 18500 rpm



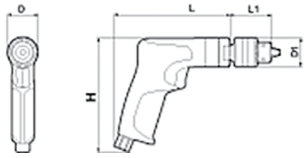
C
DR750 Series
750 W (1hp) / 400 to 20000 rpm



D

Color rings to identify your tools speed



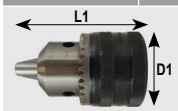
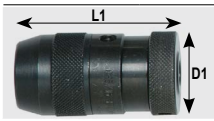


Model	D		H	
	mm	in.	mm	in.
DR350-P..	35	1.38	135	5.3
DR500-P	36.5	1.44	135	5.3
DR750-P..	47	1.85	146	5.75

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/O CHUCK		LENGHT L	
					rpm	W	hp	Nm	in.lb	kg	lb	mm	in.
	DR350 - KEY CHUCK		**DR350 - WITHOUT CHUCK**										
A	DR350-P20000-C8	205 147 252 4	DR350-P20000*	205 147 359 4	20000	350	0.5	0.6	5.3	0.49	1.1	120	4.72
A	DR350-P5500-C8	205 147 250 4	DR350-P5500*	205 147 358 4	5500	350	0.5	2.3	20.4	0.49	1.1	136	5.35
A	DR350-P4500-C8	205 147 382 4	DR350-P4500*	205 147 384 4	4500	350	0.5	2.7	23.9	0.49	1.1	136	5.35
A	DR350-P3000-C8	205 147 248 4	DR350-P3000*	205 147 357 4	3000	350	0.5	4.0	35.4	0.49	1.1	136	5.35
A	DR350-P2000-C8	205 147 246 4	DR350-P2000*	205 147 356 4	2000	350	0.5	5.4	47.8	0.49	1.1	136	5.35
A	DR350-P1000-C10	205 147 244 4	DR350-P1000*	205 147 355 4	1000	350	0.5	12.7	112.4	0.57	1.3	154	6.06
A	DR350-P550-C10	205 147 242 4	DR350-P550*	205 147 354 4	550	350	0.5	18.6	164.6	0.57	1.3	154	6.06
*All models DR350: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / * Chuck spindle 3/8" x 24 UNF*													
	DR500 - KEY CHUCK		**DR500 - WITHOUT CHUCK**										
B	DR500-P18500-C8	205 147 676 4	DR500-P18500*	205 147 678 4	18500	500	0.68	1.0	8.85	0.56	1.2	141	5.55
B	DR500-P5800-C8	205 147 673 4	DR500-P5800*	205 147 675 4	5800	500	0.68	3.1	27.4	0.56	1.2	141	5.55
B	DR500-P4300-C8	205 147 670 4	DR500-P4300*	205 147 672 4	4300	500	0.68	4.2	37.2	0.56	1.2	141	5.55
B	DR500-P2700-C8	205 147 667 4	DR500-P2700*	205 147 669 4	2700	500	0.68	6.9	61.1	0.56	1.2	141	5.55
B	DR500-P1800-C10	205 147 664 4	DR500-P1800*	205 147 666 4	1800	500	0.68	9.9	87.6	0.64	1.4	155	6.1
B	DR500-P1400-C10	205 147 661 4	DR500-P1400*	205 147 663 4	1400	500	0.68	13.4	118.6	0.64	1.4	155	6.1
B	DR500-P1000-C10	205 147 658 4	DR500-P1000*	205 147 660 4	1000	500	0.68	18.0	159	0.64	1.4	155	6.1
B	DR500-P600-C13	205 147 655 4	DR500-P600*	205 147 657 4	600	500	0.68	28.7	254	0.64	1.4	155	6.1
B	DR500-P400-C13	205 147 652 4	DR500-P400*	205 147 654 4	400	500	0.68	46.0	407	0.64	1.4	155	6.1
*All models DR500: Air Flow: 14 l/s (30 cfm) - Air inlet: 1/4" - Hose int. 10 mm (3/8") / * Chuck spindle 3/8" x 24 UNF*													
	DR750 - KEY CHUCK		**DR750 - WITHOUT CHUCK**										
C	DR750-P20000-C8	205 146 659 4	DR750-P20000*	205 147 458 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
C	DR750-P6000-C8	1465124	DR750-P6000*	205 147 417 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
C	DR750-P4100-C8	1465114	DR750-P4100*	205 147 456 4	4100	750	1	7.1	62.8	0.9	2.0	152	5.98
C	DR750-P3300-C10	1465104	DR750-P3300*	205 147 455 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
C	DR750-P2700-C10	1465094	DR750-P2700*	205 147 416 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
C	DR750-P1300-C10	1465084	DR750-P1300*	205 147 415 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
C	DR750-P750-C13	1465074	DR750-P750**	205 147 452 4	750	750	1	41.0	363	1.15	2.5	184	7.24
C	DR750-P400-C13	205 146 658 4	DR750-P400**	205 147 451 4	400	750	1	55.0	487	1.15	2.5	184	7.24
			DR750 - JACOBS TAPER 1 SPINDLE - WITHOUT CHUCK										
D			DR750-P20000-JT1	205 146 667 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
D			DR750-P6000-JT1	205 146 666 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
D			DR750-P3300-JT1	205 146 664 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
D			DR750-P2700-JT1	205 146 663 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
D			DR750-P1300-JT1	205 146 662 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
D			DR750-P750-JT1	205 146 661 4	750	750	1	41.0	363	1.15	2.5	184	7.24
D			DR750-P400-JT1	205 146 660 4	400	750	1	55.0	487	1.15	2.5	184	7.24
*All models DR750: Air Flow: 14 l/s (30 cfm) - Air inlet: 1/4" - Hose int. 10 mm (3/8") / Chuck spindle: * 3/8" x 24 UNF / **1/2" x 20 UNF*													

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CHUCK SELECTION GUIDE FOR DR300-T... / DR350-P... / DR500-P... / DR750-P.

CHUCK PART NO.	CHUCK MOUNT	CHUCK CAPACITY		DIMENSIONS D1		DIMENSIONS L1		WEIGHT		PART NO. KEY	DR3..-P...C8 DR500-P...C8 DR750-P...C8	DR3..-P...C10 DR500-P...C10 DR750-P...C10	DR500-P...C13 DR750-P...C13	DR750-P.. JT1
		mm	in.	mm	in.	mm	in.	g	lb					
														
205 055 272 3	3/8"-24	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	121	0.27	**29182**	O	O	O	
205 053 013 3	3/8"-24	0.5 - 8	5/16	29.3	1.15	42.5	1.67	120	0.26	**410213**	I			
205 052 954 3	3/8"-24	1 - 10	3/8	37	1.46	49.5	1.95	204	0.45	**29232**		I		
473113	3/8"-24	1.5 - 13	1/2	42	1.67	59	2.32	371	0.82	**895 101 145 3**			I	
29142	1/2"-20	1.5 - 13	1/2	42	1.67	59	2.32	362	0.80	**895 101 145 3**			I	
29492	1JT	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	112	0.25	**29182**				O
29042	1JT	0.8 - 10	3/8	34.5	1.36	48	1.89	231	0.51	**29232**				O
34752	2JT	1 - 10	3/8	42	1.67	61.5	2.4	386	0.85	**895 101 145 3**				O*
34332	2JT	1 - 13	1/2	50	1.97	67.5	2.66	900	1.98					O*
														
473433	3/8"-24	0 - 8	5/16	32	1.26	61.5	2.4	285	0.63		O	O		
473423	3/8"-24	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86			O		
205 047 819 3	3/8"-24	1 - 13	1/2	40	1.58	76.3	3	559	1.23				O	
205 056 060 3	1/2"-20	1 - 13	1/2	40	1.58	76.3	3	548	1.21				O	
524.09	1JT	0 - 6.5	1/4	32	1.26	59.5	2.34	284	0.62					O
524.15	1JT	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86					O
524.10	2JT	0.5 - 10	3/8	40	1.58	87.5	3.4	636	1.4					O*
524.16	2JT	1 - 13	1/2	46	1.8	91	3.6	904	1.99					O*

* To use 2JT chuck on DR750, add adaptor P.N. 12243

I INCLUDED WITH THE TOOL

O OPTIONAL ACCESSORIES



ACCESSORIES INCLUDED		DR350-P...C8 DR500-P...C8 DR750-P...C8.	DR350-P...C10 DR500-P...C10 DR750-P...C10	DR500-P...C13 DR750-P...C13
ITEM				
1	Chuck guard for DR350-P...C	**205 049 275 3**		
1	Chuck guard for DR500-P...C	**205 049 486 3**		
1	Chuck guard for DR750-P...C8 & C10	**473143**	**473143**	
2	Side handle for DR350-P550 & P1000	**205 049 446 3**	**205 049 446 3**	
2	Side handle for DR500-P400 to P1800		**205 053 102 3**	**205 053 102 3**
2	Side handle for DR750-P	**473173**	**473173**	**473173**
3	Suspension bail for DR750-P	**473153**	**473153**	**473153**



COLOUR IDENTIFICATION		DR350 SPEED	DR350 PART NO.
		rpm	
Black		20000	**205 049 447 3**
Orange		5500	**205 055 003 3**
Purple		4500	**205 055 004 3**
Blue		3000	**205 055 005 3**

COLOUR IDENTIFICATION		DR350 SPEED	DR350 PART NO.
		rpm	
Red		2000	**205 055 006 3**
Green		1000	**205 055 007 3**
Yellow		550	**205 055 008 3**



OTHER OPTIONAL ACCESSORIES

ITEM		DR350-P...	DR500-P...	DR750-P...	DR750-P...JT1 MOUNT
•	Chuck guard for DR750-P...JT1 with chuck key - cap 6.5mm (1/4")				**473143**
2	Side handle for DR350 / 500	**205 049 446 3**	**205 053 102 3**		
•	Adaptor - JT1 female to JT2 male (for DR750-P...JT1)				**12243**
•	Flat wrench, 12.7mm (1/2")				**15533**

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Straight Grip Drills



A

DR300 Series
300 W (0.4hp) / 550 to 20000 rpm

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/O CHUCK		LENGHT W/O CHUCK	
					rpm	W	hp	Nm	in.lb	kg	lb	mm	in.
	DR300 - KEY CHUCK		**DR300 - WITHOUT CHUCK**										
A	DR300-T20000-C8	615 176 065 0	DR300-T20000	615 176 064 0	20000	300	0.4	0.6	5.3	0.44	0.97	138	7.28
A	DR300-T5500-C8	615 176 063 0	DR300-T5500	615 176 062 0	5500	300	0.4	2.3	20.4	0.49	1.08	167	6.57
A	DR300-T4500-C8	615 176 061 0	DR300-T4500	615 176 060 0	4500	300	0.4	2.7	23.9	0.49	1.08	167	6.57
A	DR300-T3000-C8	615 176 059 0	DR300-T3000	615 176 058 0	3000	300	0.4	4.0	35.4	0.49	1.08	167	6.57
A	DR300-T2000-C8	615 176 057 0	DR300-T2000	615 176 056 0	2000	300	0.4	5.4	47.8	0.49	1.08	167	6.57
A	DR300-T1000-C10	615 176 055 0	DR300-T1000	615 176 054 0	1000	300	0.4	12.7	112.4	0.60	1.32	184	7.24
A	DR300-T550-C10	615 176 053 0	DR300-T550	615 176 052 0	550	300	0.4	18.6	164.6	0.60	1.32	184	7.24

All models DR300: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / Chuck spindle 3/8" x 24 UNF





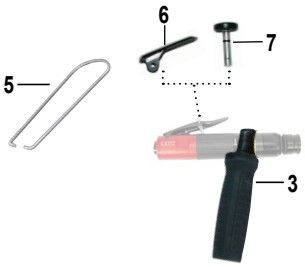
ACCESSORIES INCLUDED

ITEM		DR300-P...C8	DR300-P...C10
1	Keyed chuck 3/8" UNF - cap 8mm (5/16") (with key)	**205 053 013 3**	-
1	Keyed chuck 3/8" UNF - cap 10mm (3/8') (with key)	-	**205 052 954 3**
•	Chuck key	**410213**	**29232**
2	Chuck guard for DR300-P...C8	**615 049 275 3**	-
3	Side handle for DR300-T..C10	-	**205 049 446 3**
4	Safety lever for DR300-T..	**205 050 288 3**	**205 050 288 3**
•	Exhaust hose for DR300-T...	**205 051 259 3**	**205 051 259 3**



COLOUR IDENTIFICATION		DR300 SPEED
		rpm
Black		20000
Orange		5500
Purple		4500
Blue		3000

COLOUR IDENTIFICATION		DR300 SPEED	DR300 PART NO.
		rpm	
Red		2000	
Green		1000	
Yellow		550	
Set of color plastic rings			**615 399 250 0**



OPTIONAL ACCESSORIES

ITEM		DR300
3	Side handle for DR300	**615 399 265 0**
5	Suspension Bail	**39433**
6	Short lever	**205 050 299 3**
7	Kit inlet button	**615 399 266 0**

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DR500-HCU

For a better control of your drilling operations, the dampened drilling units improve your drilling quality, especially in composite.

The dampening unit reduces the risk of delamination by dampening the thrust during the drilling phase, and at the exit point.



DR500-P18500 - STR25 – C X

1. Pistol tool power
2. Speed level (rpm)
3. HCU Unit Stroke
4. Nose

1 Pistol tool power
DR500: 500W (0,68hp)
DR750: 750W (1hp)

3 HCU Unit Stroke
STR25: 25mm (1")
STR50: 50mm (2"))
STR75: 75mm (3")

4 Nose type
CX: Cylindrical (X = diameter)
Q: ¼ turn*
TR: Integrated tripod

MODEL	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT	
	rpm	kW	hp	Nm	In.lb	kg	lb.
DR500-P5800	**5800**	0.5	0.68	3.1	27.44	0.67	1.5
DR500-P4300	**4300**	0.5	0.68	4.2	37.17	0.67	1.5
DR500-P2700	**2700**	0.5	0.68	6.9	61.07	0.67	1.5
DR500-P1800	**1800**	0.5	0.68	9.9	87.62	0.84	1.8
DR500-P1400	**1400**	0.5	0.68	13.4	118.59	0.84	1.8
DR500-P1000	**1000**	0.5	0.68	18.0	159.3	0.84	1.8
DR500-P600	**600**	0.5	0.68	28.7	254	0.96	2.1
DR500-P400	**400**	0.5	0.68	46.0	407.1	0.96	2.1

Manual drilling unit

For a better control of your drilling operations, the Manual Drilling Unit offers controlled feed through a pneumatic piston.

Customizable, you can choose to add a cycle counter, specific tripods and vacuum to suit your application.

Press the trigger, the feed is controlled via the piston and hydraulic control unit. No need to push, reduced risk of delamination in composite.

Run your cycle, when you release the trigger, your drill bit will retract automatically.



Technical data

All models:

- Air flow 1.4 l/s (30 cfm)
- Air inlet: 1/4"
- Hose int 10 mm (3/8")
- Collet Serie 200
- Shank diameter : 2.4-9.5 mm
- Internal threaded output (1/2"-20 UNF)
- Vibration level (m/s²): <2,5
- Sound pressure level (dBA): 75

Some parts (Bushings, tripods) will be specific to your application. Please contact your local Desoutter representative for support

Accessories & options

Collets Series 200

DESCRIPTION	PART NO.
Collet Ø2.4 to 3.2mm	**615 526 061 0**
Collet Ø3.2 to 4mm	**615 526 151 0**
Collet Ø3.7 to 4.5mm	**615 526 152 0**
Collet Ø4.2 to 5mm	**615 526 153 0**
Collet Ø 5.2 to 6mm	**615 526 062 0**
Collet Ø7.2 to 8mm	**615 526 064 0**
Collet Ø 8.7 to 9.5mm	**615 526 065 0**
Collet Ø1/4" (Ø5.55 to 6.35mm)	**615 526 063 0**



Customizable tripod and bushing

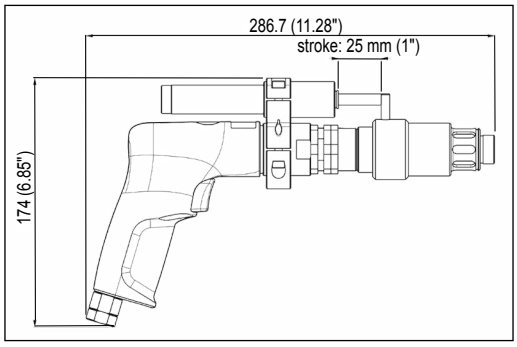


Vacuum



Side Lubrication

Dimensions

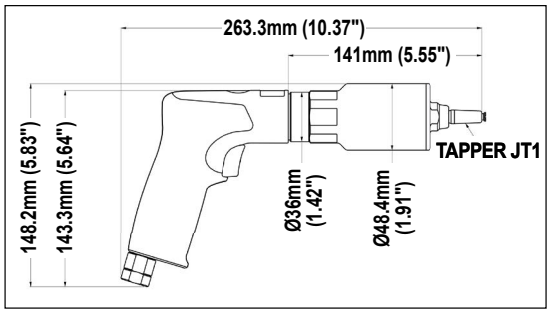


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Tappers

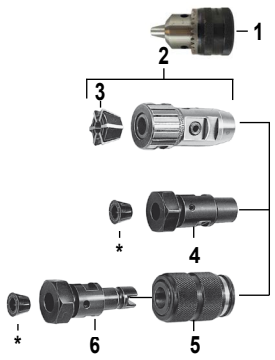


T500 Series
0.5kW (0.68hp) / 400 & 600 rpm



PIC REF	MODEL	PART NUMBER	FREE SPEED	REVERSE SPEED	MOTOR POWER		MAX. TAPPING TORQUE STEEL	MAX. TAPPING TORQUE ALUMINIUM	WEIGHT		LENGTH		AIR FLOW		AIR INLET
			rpm	rpm	kW	hp			kg	lb	mm	in.	l/s	cfm	in.
TAPPERS															
A	T500-P400	205 147 995 4	400	800	0.5	0.68	M10	M12	0.64	1.4	263	10.35	14	30	1/4
A	T500-P600	205 147 996 4	600	1200	0.5	0.86	M10	M12	0.64	1.4	263	10.35	14	30	1/4

All models T500-P: Hose int. 10 mm (3/8")



OPTIONAL ACCESSORIES

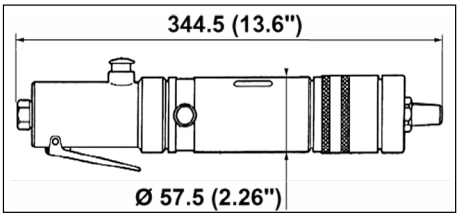
ITEM		PART NO.
1	Keyed chuck (1JT) - 0,8 to 10mm (3/8") (with key) T500-P400	29042
1	Keyed chuck (1JT) - 0,5 to 6,5mm (1/4") (with key) T500-P600	29492
•	Chuck key - T500-P400	29232
•	Chuck key - T500-P600	410213
2	Precision collet tap holder (including collet cap. M3 to M8)	29452
•	Collet capacity M3 to M7 (1/8" to 9/32")	29482
•	Collet capacity M4 to M8 (5/32" to 5/16")	29472
3	Collet capacity M6 to M12 (15/64" to 15/32")	97982
4	Tap Holder (1 JT)	69922
5	Quick Release Chuck (1 JT)	16852
6	Quick Release Tap Holder (1 JT)	69872

Collets for Tap Holders:

TAP SIZE mm	TAP SIZE in.	BA	SHANK DIA. mm	PART NO
M2.2 & M2.5		6 & 8	2.8	2612
M3	1/8	5	3.2	2632
M3.5		4	3.6	2652
M4			4.0	2672
M4.5		3	4.5	2702
M5	3/16	2	5.0	2722
M5.5	7/32	1	5.6	2752
M6	1/4	0	6.3	2792
M7	9/3		7.1	2832
M8 & M11	5/1 & 7/16		8.0	2872
M9 & M12	1/2		9.0	69882
M10	3/8		10.0	69892
*Wrench for Tap Holder collet nut				29443
*2mm A/F hexagon key for Tap Holder grub screws				206773



2H16 Series
Variable speed setting
90 to 500 rpm - 47 to 240 Nm



PIC REF	MODEL	PART NUMBER	LOW SPEED SETTING	HIGH SPEED SETTING	MAX. TAPPING TORQUE LOW SPEED		MAX. TAPPING TORQUE HIGH SPEED		WEIGHT		AIR FLOW		AIR INLET
			rpm	rpm	Nm	ft.lb	Nm	ft.lb	kg	lb	l/s	cfm	in.
TAPPERS													
A	2H16-L-160/500-B18	1434264	130	500	140	103	47	34.7	3.1	6.8	15.6	33	3/8
A	2H16-L-90/250-B18	1434344	90	250	240	177	90	66.4	3.1	6.8	15.6	33	3/8

All models 2H16-L: Hose int. 10mm (3/8")

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Deburring tools & Rivet Shaver



A

C27 Serie
1450 rpm
Collet size 6,4mm (1/4")

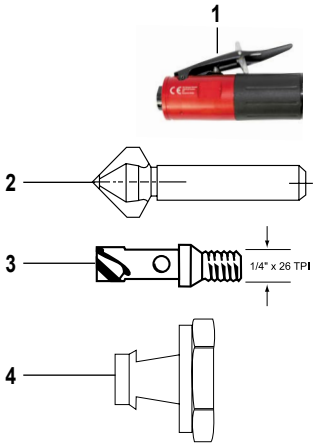


B

RS500 Series
18500 rpm

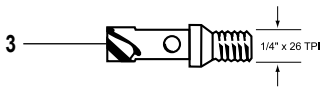
PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET SIZE	MAXIMUM CUTTER DIA.		WEIGHT		LENGTH		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	mm	mm	in.	kg	lb	mm	in.	l/s	cfm	in.	mm	in.
HOLE DEBURRING TOOLS – LEVER START (integral speed regulator)															
A	C27-LX-1450	615 176 115 0	1450	6.4 (1/4")*	–	–	0.68	1.5	220.5	8.68	9.5	20	1/4	6	1/4
RIVET SHAVER (for accessory 1/4"-26 WHIT)															
B	RS500-P18500	205 148 130 4	18500	–	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8
RIVET SHAVER (for accessory 1/4"-28 UNF)															
B	RS500-P18500	205 148 129 4	18500	–	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8

**: If speed adjustment is needed, you can do it with flow regulator PN LC121737*



ACCESSORIES INCLUDED

ITEM		C27-LX	RS500
•	ø 6.4mm (1/4") capacity collet	615 526 063 0	
1	Safety lever	205 050 288 3	
2	Cutter (90° point) – 10mm dia	91572	
3	Cutter – carbide tipped (11.1mm 7/16" dia)		70602
4	Cutter Guard		18822
•	Wrench 19A/F	615 801 005 0	
•	Collet Spindle Wrench	615 801 076 0	15533
•	Cutter Guard Wrench		38873



OPTIONAL ACCESSORIES

ITEM		RS500
3	Cutter – carbide tipped ø6.4mm (ø1/4")	70572
3	Cutter – carbide tipped ø7.9mm (ø5/16")	70582
3	Cutter – carbide tipped ø9.5mm (ø3/8")	70592
3	Cutter – carbide tipped ø12.7mm (ø1/2")	70622
4	Cutter Guard ø6.4mm (ø1/4")	18782
4	Cutter Guard ø7.9mm (ø5/16")	18792
4	Cutter Guard ø9.5mm (ø3/8")	18802
4	Cutter Guard ø12.7mm (ø1/2")	18832
4	Cutter Guard ø14.3mm (ø9/16")	18842

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Rack Feed Drills

- The Rack Feed Drill is a semi-fixtured (nose mounted) portable drilling unit, utilising a manual feed through an integral "rack and pinion" mechanism to accommodate the approach drilling and retract cycles. This provides the user with complete control of the feed rate during drilling and allows the user to "feel" the feed rate required. Versatile and flexible, especially when drilling laminates and sandwich materials.

- RFD is suitable for drilling/reaming various materials used in the Aerospace industries e.g. Inconel, Titanium, Steel, Aluminium and Composites.





■ **RFD-100**
Speed range 60 to 2800 rpm
102mm (4") adjustable stroke
13mm (1/2") chuck capacity

■ **RFDT-125**
Speed range 60 to 800 rpm
127mm (5") adjustable stroke
No. 2 Morse taper spindle



For a Vacuum Kit option, please contact your local Desoutter representative

How to select your tool?

1 Select material **2** Select hole size **3** Select tool

RFD Selection

DRILL Ø	TOOL TYPE – RPM			
	Inconel	1 Titanium	Mild Steel	Aluminium
3mm - 1/8"	RFD(T)-330/500	RFD(T)-500	RFD-2800	RFD-2800
5mm - 3/16"	RFD(T)-140/330	RFD(T)-330/500	RFD-1850	RFD-2800
6mm - 1/4"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD-1850
8mm - 5/16"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD(T)-800
10mm - 3/8" 2	RFD(T)-85/140	RFD(T)-140 3	RFD(T)-800	RFD(T)-800
13mm - 1/2"	RFD(T)-60/85	RFD(T)-85/140	RFD(T)-500	RFD(T)-800
16mm - 5/8"		RFD(T)-85/140	RFD(T)-330	RFD(T)-800
19mm - 3/4"		RFD(T)-60/85	RFD(T)-85/140	RFD(T)-330/500
25mm - 1"			RFD(T)-60/85	RFD(T)-140/330

Use selection data as a guide only

MODEL	PART NUMBER	FREE SPEED	MAX STROKE		OUTPUT SPINDLE	CHUCK SPINDLE	LENGTH		WEIGHT		AIR FLOW		AIR INLET
		rpm	mm	in.		in.	mm	in.	kg	lb	l/s	cfm	in.
RFD													
RFD-100-2800	**681214**	2800	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-1850	**681394**	1850	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-800	**680084**	800	102	4	Chuck	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-500	**680164**	500	102	4	13mm	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-330	**680244**	330	102	4	(1/2")	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-140	**1457364**	140	102	4	capacity	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-85	**1457374**	85	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-60	**1457384**	60	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFDT													
RFDT-125-800	**1445654**	800	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-500	**1445664**	500	127	5	No. 2		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-330	**1445674**	330	127	5	Morse		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-140	**1445504**	140	127	5	Taper		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-85	**1445514**	85	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-60	**1445524**	60	127	5			764	30.08	5.5	12.1	11.8	25	1/4

All models: Hose int. 10 mm (3/8")

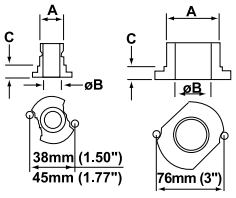
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ACCESSORIES INCLUDED

	PART NUMBER	
	RFD	RFDT
• Chuck with key capacity 13mm (5/8"x16)	**29122**	-
• Chuck with key capacity 13mm (1/2")	**29142**	-
• Extended Nose (1" x 14 LH nose thread)	**251043**	-
• Bayonet Plate – 45mm (1.77") centres	**251063**	-
• Bayonet Plate – 76mm (2.99") centres	-	**35223**

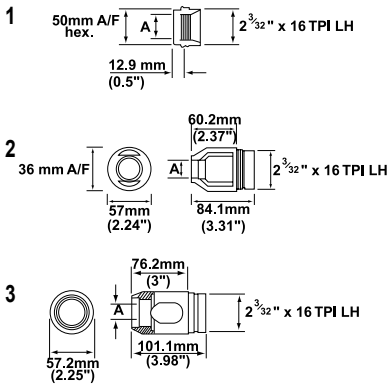
OPTIONAL ACCESSORIES

For more details on the following Part Numbers, please contact your local Desoutter representative



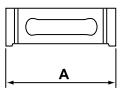
Bayonet Plates

	A	Ø B	C
Locating centres – 38mm (1.50")	3/4" x 16 (LH)	14.2mm (0.559")	9.5mm (3/8")
Locating centres – 45mm (1.77")	1" x 14 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 45mm (1.77")	11/8" x 20 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 76mm (2.99")	23/32" x 16 (LH)	38.1mm (1.150")	12.7mm (1/2")



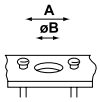
Nose Attachments

NOSE TYPE	TO SUIT BAYONET PLATE CENTRES	THREAD 'A'
1	38mm (1.50")	3/4" x 16 (LH)
2	38mm (1.50")	3/4" x 16 (LH)
2	45mm (1.77")	1" x 14 (LH)
3	-	1-1/4" x 12 (LH)
3	-	1-1/4" x 12 (LH)
3	-	2" x 16 (LH)



Extension Tubes

NOMINAL STROKE AVAILABLE TO DRILL	LENGTH 'A'
• 80mm (3.15")	170mm (6.69")



Jig Plates

CENTRE "A"
38mm (1.50")
45mm (1.77")

Drill bushes

ATTACHMENT	"Ø B"
ø 14.2mm	Ø 10 to 14mm
ø 19.05mm	Ø 10 to 18mm
ø 38.01mm	Ø 22 to 35mm

For dimension 'ØB' please ask for details of our range of drill bushes

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Compression Tools





SQUEEZERS

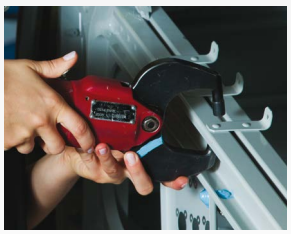
- Wide range of Alligator Jaws & C-Yokes tools.
- Excellent power-to-weight ratio.
- Fast and slow approach.
- Robust and reliable design.

How to select the right tool?



1
Rivet

Material
Diameter



2
Application

Accessibility
Customer specification



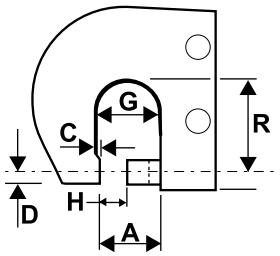
3
Select tool

Power required (p.189)
C-Yoke or Alligator
Gap & Reach figures



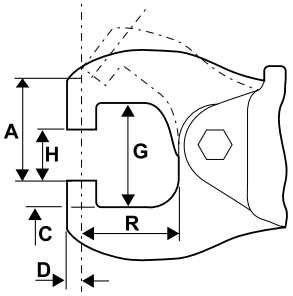
4
Select Rivet set & shims

Rivet set shank
Rivet set type
Rivet set length



Jaw and Yoke Terminology:
(rivet sets are not in place in this illustration)

A Throat gap
C Anvil work clearance
D Lower offset
G Total yoke gap
H Closed height
R Reach



C YOKE MODEL	A		C		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214CELEL	32	1-1/4	–	–	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214FALEL	32	1-1/4	–	–	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214SETEL	32	1-1/4	–	–	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0214KETEL	32	1-1/4	–	–	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0351CUDEL	39	1-17/32	–	–	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0351FUDEL	39	1-17/32	–	–	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0341CUDEL	57	2-1/4	3	1/8	9	11/32	70	2-3/4	25	1	54	2-1/8
CP0214FAXEL	44	1-3/4	–	–	5	3/16	44	1-3/4	17.5	11/16	50.8	2.5
CP0214FAREL-5	36	1,417	–	–	8	0,313	36	1,417	17/20	0,669 /0,787	50	1,969
CP0214 CEREL-5	36	1,417	–	–	8	0,313	36	1,417	17/20	0,669 /0,787	50	1,969

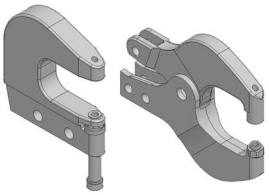
ALLIGATOR MODEL	A		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214ANGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ENGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ANFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ENFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ENCEL-5	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ANBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0214ENBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0351ASVEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESVEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESREL	81	3-3/16	5.5	7/32	51	2	38	1-1/2	178	7
CP0351ASKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ESKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ASGEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8
CP0351ESGEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8

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Riveting Compression Tools


A


B



New available adjustable rivet set holders for C-Yoke & Alligator tools
Comes with 5mm rivet set shank
Search for the "-5" tools in the list below


C


D


E

CP0214

CP0351

CP0341 - Pneumatic TM --> Full power through the full stroke

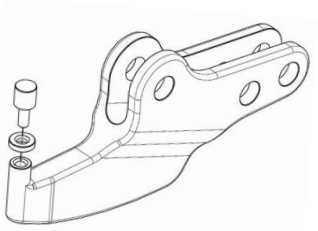
PIC REF	MODEL	PART NUMBER	CAPACITY				MAX FORCE		MOVING PLUNGER				STANDARD YOKE DIMENSIONS				LENGTH		WEIGHT	
			LIGHT		HARD		(90 PSI/ 6.2 BAR)		MAX TRAVEL		FINAL PART OF STROKE AT MAX. FORCE		REACH R		CLOSED HEIGHT H					
			mm	in.	mm	in.	kN	lb	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb
C-YOKE (single cylinder)																				
A	CP0214CELEL*	T012344	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	38.1	1-1/2	17.5	11/16	262	10.3	2.0	4.41
A	CP0214CEREL-5	6151710160	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	50	1,969	17/20	0,669/0,787	262	10.3	2.0	4.41
	CP0214CENEL	T018677	Same power unit as above without yoke																	
A	CP0214SETEL**	T023474	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	38.1	1-1/2	17.5	11/16	262	10.3	2.0	4.41
B	CP0351CUDEL*	T008955	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	445	17.5	5.7	12.6
	CP0351CUNEL	T007772	Same power unit as above without yoke																	
C-YOKE (tandem cylinder)																				
A	CP0214FALEL*	T013152	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
A	CP0214FAREL-5	6151710150	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	50	1,969	17/20	0,669/0,787	356	14	2.5	5.5
A	CP0214FAXEL*	T022528	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	50.8	2.5	17.5	11/16	366	14.4	2.6	5.7
	CP0214FANEL	T018430	Same power unit as above without yoke																	
A	CP0214KETEL**	T023475	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
B	CP0351FUDEL*	T012608	6.4	1/4	5.6	7/32	53.40	12,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	552	21.7	6.9	15.2
ALLIGATOR (single cylinder)																				
C	CP0214ANBEL*	T012343	3.2	1/8	2.4	3/32	13.35	3,000	15.9	5/8	1.3	0.050	38.1	1-1/2	22.2	7/8	233	9.17	1.7	3.75
C	CP0214ANFEL*	T018671	2.4	3/32	2.4	3/32	9.79	2,200	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	254	10	1.9	4.18
C	CP0214ANGEL*	T018672	2.4	3/32	1.6	1/16	8.01	1,800	31.8	1-1/4	1.4	0.056	76.2	3	22.2	7/8	273	10.7	2.0	4.41
	CP0214ANPEL	T019138	Same power unit as above without yoke																	
D	CP0351ASGEL*	T007783	4.0	5/32	3.2	1/8	23.14	5,200	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	495	19.5	7.1	15.6
D	CP0351ASKEL*	T007773	3.2	1/8	2.4	3/32	15.13	3,400	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	549	21.6	9.0	19.8
	CP0351ASNEL	T025405	Same power unit as above without yoke																	
D	CP0351ASVEL*	T009582	3.2	1/8	2.4	3/32	13.35	3,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	654	25.7	11.9	26.2
ALLIGATOR (tandem cylinder)																				
C	CP0214ENGEL*	T018164	3.2	1/8	2.4	3/32	15.13	3,400	31.8	1-1/4	2.6	0.104	76.2	3	22.2	7/8	343	13.5	2.5	5.51
C	CP0214ENFEL*	T018163	4.0	5/32	3.2	1/8	19.14	4,300	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	324	12.8	2.4	5.28
C	CP0214ENFEL-5	6151710170	4.0	5/32	3.2	1/8	19.14	4,300	22.2	7/8	2.4	0.094	57.1	2-1/4	17.2/22.2	0.68/0.87	324	12.8	2.4	5.28
C	CP0214ENBEL*	T018678	4.8	3/16	4.0	5/32	26.70	6,000	15.9	5/8	1.6	0.063	38.1	1-1/2	22.2	7/8	303	11.9	2.2	4.85
	CP0214ENPEL	T018997	Same power unit as above without yoke																	
D	CP0351ESKEL*	T012603	4.8	3/16	4.0	5/32	30.26	6,800	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	657	25.9	10.2	22.5
D	CP0351ESREL*	T012604	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	4.8	0.188	178	7	38.1	1-1/2	708	27.9	12.2	26.9
D	CP0351ESVEL*	T012605	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	762	30	13.2	29.1
D	CP0351ESGEL*	T012602	6.4	1/4	4.8	3/16	46.28	10,400	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	603	23.7	8.4	18.5
C-YOKE (pneumatic™)																				
E	CP0341CUDEL**	T022512	7.1	9/32	6.4	1/4	60.1	13,500	31.8	1-1/4	Full stroke									
	CP0341CUNEL	T022493	Same power unit as above without yoke																	

** CR1 / ** CR2 // -5 = 5mm rivet set shank*

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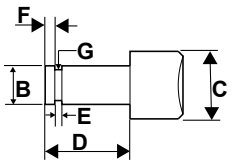
Compression Tools - Riveting

Rivet set shank (CR1/CR2)



SHANK DIMENSIONS FOR RIVET SETS

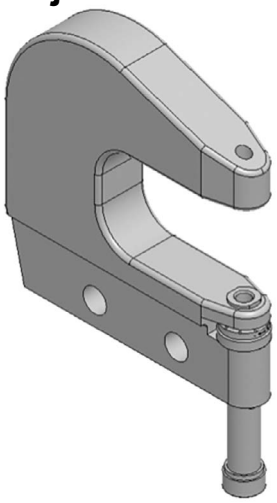
For CP0214, CP0351 and CP0341 Compression Riveters

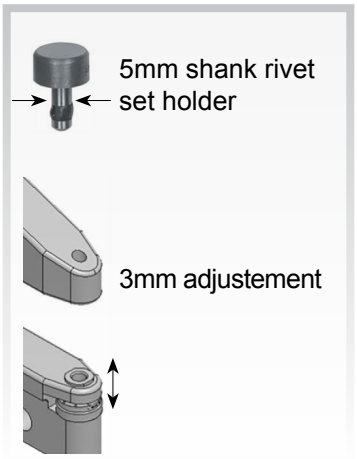


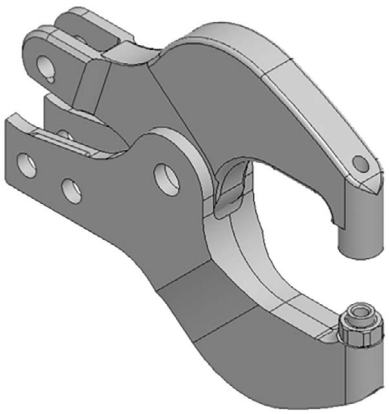
TYPE OF RIVET SET SHANK	B		C*		D		E		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CR-1 (ø 4.8mm 3/16")	4.75-4.72	0.187-0.186	12.7	1/2	12.7	1/2	3.45-3.38	0.136-0.133	1.6	1/16	3.23-3.12	0.127-0.123
CR-2 (ø 6.4mm 1/4")	6.42-6.40	0.249-0.248	15.9	5/8	15.9	5/8	3.45-3.38	0.136-0.133	2.4	3/32	4.80-4.70	0.189-0.185

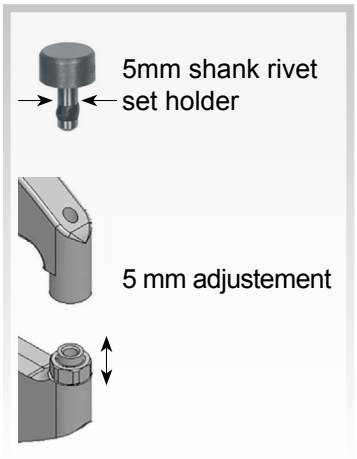
** 'C' dimension is for flush set only. 'C' varies on cupped sets according to rivet size and type of head.*

Adjustable Rivet set shank 5mm







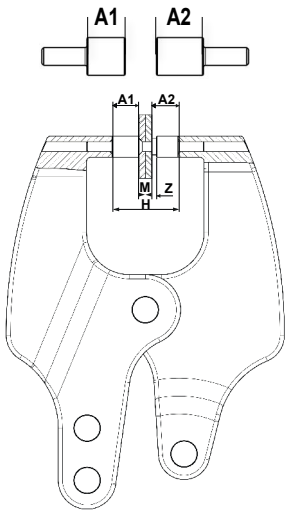


Rivet set lenght calculation

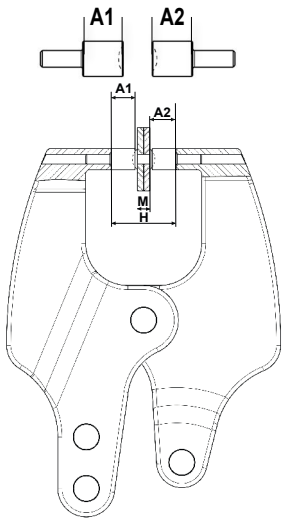
To develop maximum power, the riveter must drive (set) the rivet at the end of the riveter's stroke
For maximum power the combined length of the two rivet sets must be of the correct length

A1+A2 = H-M-Z

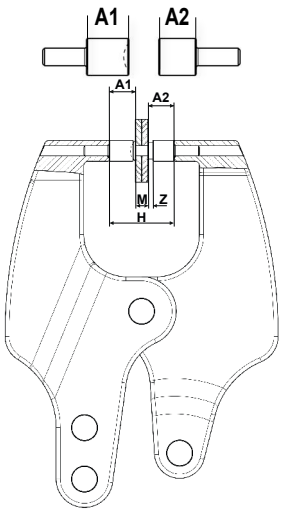
A1: Rivet set thickness (mobile jaw)
A2: Rivet set thickness (fix jaw)
H= Opening at the end of the riveting
M= Total thickness of material to be assembled
Z= height of finished rivet head (flush)



Two Flushed rivet sets



Two cupped rivet sets
Z = 0

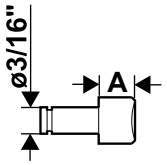


1 flushed rivet + cupped rivet set

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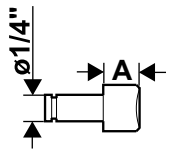
Compression Tools - Rivet sets

Rivet set Selection

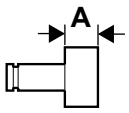


CUPPED SETS

RIVET DIAMETER		'A' BODY		AN-470 UNIVERSAL
mm	in.	mm	in.	
CR-1 SHANK RIVET SETS FOR CP0214 and CP0351 - CUPPED SETS (C-Yoke tools - CP0214 CELEL, FALEL, CUDEL, FUDEL + all Alligator Yoke tools)				
2.4	3/32	6.4	1/4	**P089430**
2.4	3/32	9.5	3/8	**P089431**
2.4	3/32	12.7	1/2	**P089432**
3.2	1/8	6.4	1/4	**P089435**
3.2	1/8	9.5	3/8	**P089436**
3.2	1/8	12.7	1/2	**P089437**
4.0	5/32	6.4	1/4	**P089440**
4.0	5/32	9.5	3/8	**P089441**
4.0	5/32	12.7	1/2	**P089442**
4.8	3/16	6.4	1/4	**P089445**
4.8	3/16	9.5	3/8	**P089446**
4.8	3/16	12.7	1/2	**P089447**
CR-2 SHANK RIVET SETS FOR CP0214 and CP0341 - CUPPED SETS (C-Yoke tools - CP0214 SETEL, KETEL + CP0341 CUDEL)				
3.2	1/8	6.4	1/4	**P089510**
3.2	1/8	9.5	3/8	**P089511**
3.2	1/8	12.7	1/2	**P089512**
4.0	5/32	6.4	1/4	**P089515**
4.0	5/32	9.5	3/8	**P089516**
4.0	5/32	12.7	1/2	**P089517**
4.8	3/16	6.4	1/4	**P089520**
4.8	3/16	9.5	3/8	**P089521**
4.8	3/16	12.7	1/2	**P089522**
6.4	1/4	6.4	1/4	**P089525**
6.4	1/4	9.5	3/8	**P089526**
6.4	1/4	12.7	1/2	**P089527**

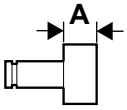


FLUSH SETS for any rivet size



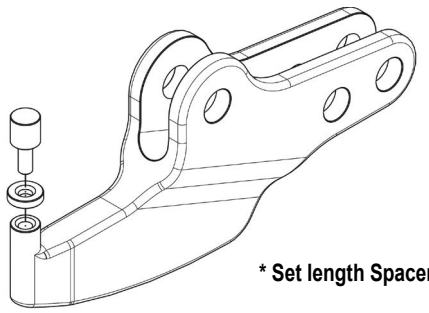
SHANK SIZE	"A" BODY LENGTH					
	3.2mm (1/8")	6.4mm (1/4")	9.5mm (3/8")	12.7mm (1/2")	15.8mm (5/8")	19mm (3/4")
CR-1 (ø 4.8mm 3/16")	**P089495**	**P089496**	**P089497**	**P089498**	**P089499**	**P089500**
CR-2 (ø 6.4mm 1/4")	**-**	**P089501**	**P089502**	**P089503**	**P089504**	**-**

SOFT SETS BLANKS



TYPE OF RIVET SET SHANK	A BODY LENGTH		B BODY DIA.		PART NO.
	mm	in.	mm	in.	
CR-1 (ø 4.8mm 3/16")	19.1	3/4	15.9	5/8	**P093672**
CR-2 (ø 6.4mm 1/4")	19.1	3/4	19.1	3/4	**P093673**

RIVET SET
*** SHIM**



*** Set length Spacer Shims**

SET LENGTH SPACER SHIMS

TYPE OF RIVET SET SHANK	PART NUMBER OF HARDENED SHIMS		
	0.4mm (1/64")	0.8mm (1/32")	1.6mm (1/16")
CR-1	**P083254**	**P083255**	**P083256**
CR-2	**-**	**P083257**	**-**

RIVET SET

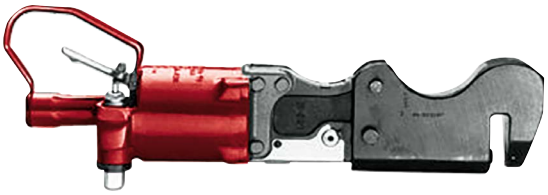
TYPE OF RIVET SET SHANK	RETAINER RING
	PART NO.
CR-1	**P071916**
CR-2	**P071917**

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Compression Tools – Sheet Metal Punch

CP0351-PU

- **Punching Capacity:**
  ø 4.8mm (3/16") in aluminum
  through 4.8mm (3/16") material thickness
- **Actuation throttle guard:**
  reduces the risk of accidental operation
- Use for a wide range of punching operations
  where it is preferable to take the tool to the job.
  e.g. large structures such as truck trailers



Capacity:

Maximum hole is ø 13mm (1/2") relative to material and thickness.
Within maximum force of 24.0 kN – 5,400 lbs, material thickness should not exceed hole diameter.
To determine force required use formula: F = 3.14 x D x T x S
where 'F' is force (lbs); 'D' is hole diameter (in.); 'T' is thickness of material (in.); 'S' is tensile strength of material (psi) or 'F' is force (kN); 'D' is hole diameter (mm); 'T' is thickness of material (mm); 'S' is tensile strength of material (N/mm2).

Accessories supplied with tool

HOLE SIZE IN ALUMINUM	PUNCH	DIE	COLLAR
ø 4.8mm (3/16")	**P041307**	**P043009**	**P041309**
ø 5.2mm (13/64")	**P112836**	**P112837**	**P112838**

MODEL	PART NUMBER	MAX. MATERIAL THICKNESS ALUM.		HOLE DIAMETER		MAX. DISTANCE EDGE OF SHEET TO HOLE CENTRELINE		MAX. PUNCHING FORCE (90 PSI/6.2 BAR)		WORK CLEARANCE PUNCH RETRACTED	
		mm	in.	mm	in.	mm	in.	kN	lb	mm	in.
CP0351PU	**205 146 721 4**	4.8	3/16	5.2	13/64	47.6	1-7/8	24.0	5400	12.7	1/2

Compression Tools – Edge Former

CP0351-CABH-DY

- Forming Capacity (max material thickness) – 6.4mm (1/4")
- Rotary Suspension Bail fitted – eases handling and orientation of tool
- Use for a wide range of flattening of spot welded flanges
  and removing bends
- Custom yokes and dies can be used for crimping
  and staking operations
- Automatic cycling frequency is adjustable from 1 cycle
  per throttle actuation to up to 200 cycles per minute
  whilst the throttle actuation is maintained.



Accessories supplied with tool

	PART NUMBER
• Yoke	**P059557**
• Die	**P059556**

MODEL	PART NUMBER	MAX. MATERIAL THICKNESS ALUM.		MAX. CYCLES PER MINUTE	REACH		MAX. COMPRESSIVE FORCE (90 PSI/6.2 BAR)	
		mm	in.		mm	in.	kN	lb
CP0351-CABH-DY	**T020475**	6.4	1/4	200	14.4	9/16	26.7	6000

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Riveting Hammers



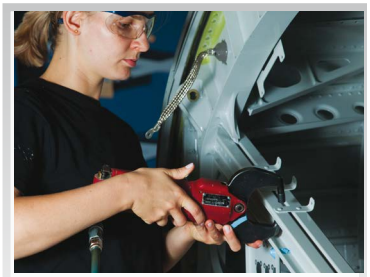


- **Wide range of hammers suitable for all applications.**
- **Recoilless series for better operator's comfort.**
- **Progressive trigger for better control.**

How to select the right tool?



1
Rivet
Light/Hard Material
Diameter



2
Application accessibility



3
Operation repetitivness
Low vibration level



4
Rivet set selection

Tool range

Our range covers a wide range of applications to answer all your requirements


CP4444-1


CP4444


CP4447


CP4450


CP4475

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Riveting Hammers

Selection guide











PIC REF	MODEL	PART NUMBER	AIR FRAME REF	BLOW PER MINUTE	BORE & STROKE	ENERGY PER BLOW		CHISEL SHANK		RIVET CAPACITY		WEIGHT		AIR INLET	HOSE INT. Ø	
					mm (in.)	J	ft.lb	mm	in.	mm (in.)	mm (in.)	kg	lb	in.	mm	in.
Standard																
A	CP4444-1	205 147 938 4	2X (200)	2580	15 x 40 (19/32 x 1.47)	4.4	3.2	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.6	1/8	10	3/8
B	CP4444-RURAB	T022961	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.0	2.2	1/4	10	3/8
B	CP4444-RUSAB	T022962	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.1	2.3	1/4	10	3/8
B	CP4444-RUTAB	T022963	4X (240)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.3	2.7	1/4	10	3/8
C	CP4447-RUSAB	T022965	5XB 500	1560	19.1 x 68.3 (3/4 x 2-11/18)	12.3	9.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	2.2	4.7	1/4	10	3/8
C	CP4447-RUTAB	T022912	7XB (700)	1140	19.1 x 98.4 (3/4 x 3-7/8)	17.8	13.1	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.3	5.1	1/4	10	3/8
C	CP4447-RUVAB	T022964	9XB (800)	900	19.1 x 147.6 (3/4 x 5-13/16)	26.6	19.6	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.7	9.0	1/4	10	3/8
Vibration reduced																
D	CP4450-2	T025189	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.7	1/4	10	3/8
D	CP4450-3	T025190	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.3	2.8	1/4	10	3/8
D	CP4450-4	T025191	4X (400)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.5	3.2	1/4	10	3/8
E	CP4475-3	T025241	5XB (500)	2000	19.1 x 76.2 (3/4 x 3)	13.7	10.1	12.7	0.498	6.4 (1/4)	4.8 (3/16")	1.8	3.9	1/4	10	3/8
E	CP4475-4	T025242	7XB (700)	1700	19.1 x 101.6 (3/4 x 4)	18.3	13.5	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.4	5.3	1/4	10	3/8
E	CP4475-6	T025243	9XB (800)	1250	19.1 x 152.4 (3/4 x 6)	27.5	20.3	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.8	6.2	1/4	10	3/8

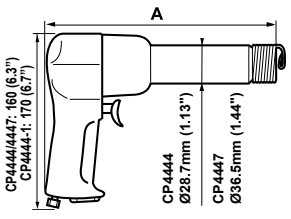
** LIGHT: Aluminium 2017 / 2117 (DCJ-DXJ / D-AD)*

*** HARD: Aluminium 7050 (DKJ / KE / E) (M) (T)*

Dimensions

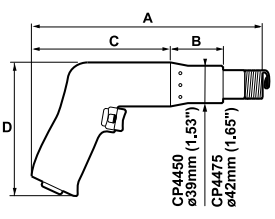
Model	A	
	mm	in.
CP4444-1	111	4.4
CP4444-RURAB	170	6.7
CP4444-RUSAB	186	7.3
CP4444-RUTAB	211	8.3
CP4447-RUSAB	227	8.9
CP4447-RUTAB	252	9.9
CP4447-RUVAB	303	11.9

CP4444 / CP4447



Model	A		B		C		D	
	mm	in.	mm	in.	mm	in.	mm	in.
CP4450-2	213	8.4	32	1.26	102	4.0	138	5.4
CP4450-3	226	8.9	32	1.26	102	4.0	138	5.4
CP4450-4	251	9.9	60	2.36	102	4.0	138	5.4
CP4475-3	275	10.8	54	2.13	180	7.1	140	5.5
CP4475-4	300	11.8	79	3.11	180	7.1	140	5.5
CP4475-6	351	13.8	130	5.12	180	7.1	140	5.5

CP4450 / CP4475

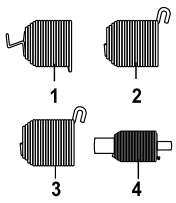


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CP4444 / CP4447 / CP4450 / CP4475

ACCESSORIES INCLUDED

	PART NUMBER		
	CP4444-1	CP4444 CP4450	CP4447 CP4475
• Light wire quick change retainer	205 053 564 3	A046095	-
• Wire quick change retainer	-	-	A047095

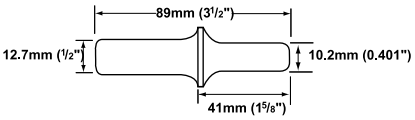


OPTIONAL ACCESSORIES

ITEM	CP4444 CP4450	CP4447 CP4475
1 Zip-Quick retainer	A046094	-
2 Beehive retainer	A046096	A047096
3 Beehive retainer	-	A046096
4 Nail driving attachment for 20-60 penny nail size (for CP4447-RUSAB & CP4475)	-	P042448

CP4444 / CP4450

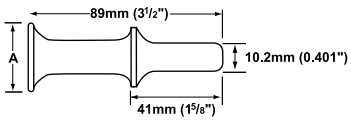
TYPE I RIVET SETS Ø 10.2MM (.401")



RIVET HEAD CUPPING	2.4MM (3/32")	3.2MM (1/8")	4.0MM (5/32")	4.8MM (3/16")	6.4MM (1/4")
• Universal	P089221	P089222	P089223	P089224	P089225*
• Soft Blank Set	P071108	-	-	-	-
• Hardened Blank Set	P080178	-	-	-	-

** Must use Light Wire Quick-Change Retainer, A046095 with these sets*

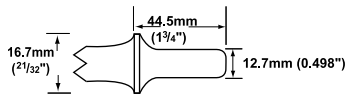
TYPE I FLUSH RIVET SETS Ø 10.2MM (.401")



	ØA MM (IN.)	CP4444/4450 Ø10.2 (0.401") SHANK
•	25.4 (1)	A046090
•	31.8 (1-1/4)	A089232
•	38.1 (1-1/2)	A089233
•	44.5 (1-3/4)	A046091

CP4447 / CP4475

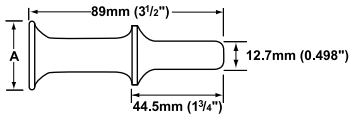
TYPE D RIVET SETS Ø 12.7MM (.498")



RIVET HEAD CUPPING	4.8MM (3/16")	6.4MM (1/4")	6.4MM (1/4")
• Universal	P089252	P089253	P089254*
• Soft blank set	P070995	-	-
• Hardened blank set	P080198	-	-

** Must use Light Wire Quick-Change Retainer, A047095*

TYPE I FLUSH RIVET SETS Ø 12.7MM (.498")



	ØA MM (IN.)	SHANK Ø12.7MM (0.498")
•	31.8 (1-1/4)	A047091

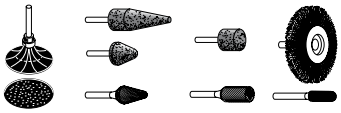
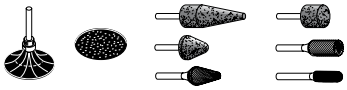
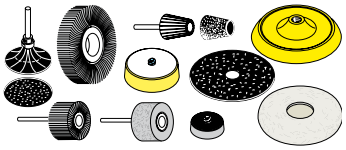
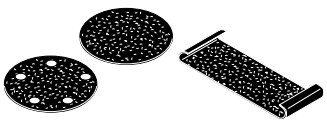
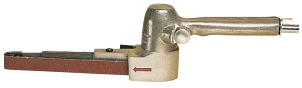
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Removal Tools



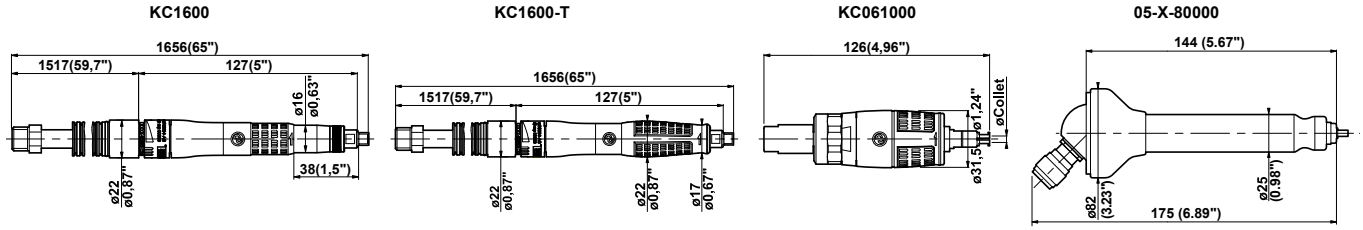
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Removal Tools - Selection Guide

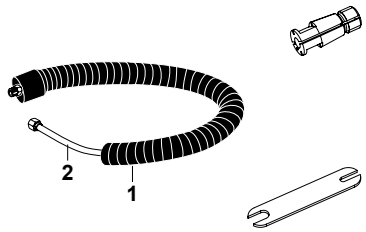
TOOL TYPE	ACCESSORIES	PAGE
GRINDERS: for carbide burrs, mounted points & sanding discs 		210-217
ROUTERS 		218
COLLET GRINDER ACCESSORIES		219
GRINDERS: for cone wheels, type 1 wheels, depressed center wheels, cut-off wheels, diamond discs, flap wheels 		220-235
SANDERS: for expandable wheels, flap wheels, brushes, abrasive discs 		236-245
DUST EXTRACTION SYSTEMS: for straight and angle grinders for angle and vertical sanders 		246-253
RANDOM ORBITAL SANDERS AND POLISHERS: for abrasive discs and polishing accessories **ORBITAL SANDERS:** for abrasive sheets 		254-265
BELT SANDERS 		266-267

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Accessories

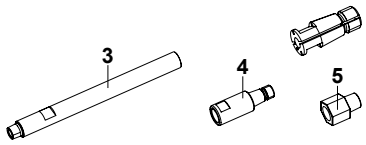


KC1600-T / KC1600



ACCESSORIES INCLUDED

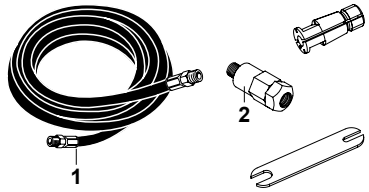
ITEM		PART NO.
•	Collet ø 3 mm	205 047 961 3
1	Exhaust kit - L = 1m (39.4")	615 396 405 0
2	Mounted inlet hose 1/4" BSP - ø 6mm (1/4") - L = 1.5m (59")	615 875 119 0
•	Spanner (Qty 2)	205 047 965 3
•	Carrying case (for T version only)	P137979



OPTIONAL ACCESSORIES

ITEM		PART NO.
•	Collet ø 2.38 mm (3/32")	205 048 059 3
3	Machine extension - L = 150mm (5.9")	615 595 330 0
4	Collet extension - L = 20mm (0.79")	615 595 329 0
5	Adaptor 1/4" BSP - 1/4" NPT female	181523

KC061000 / 05-X-80000



ACCESSORIES INCLUDED

ITEM		KC061000	05-X-80000
•	Collet ø 3 mm	205 047 961 3	9812
1	Complete inlet hose 1/8"M - 1/4"M, ø 5mm (3/16") L = 2.40m (94.5")	P043886	
2	Filter 1/4" F-1/4"M. NPT	P056381	
•	Spanner (Qty 2)	205 047 965 3	



OPTIONAL ACCESSORIES

		KC061000	05-X-80000
•	Collet ø 2.38mm (3/32")	205 048 059 3	9792
1	Complete inlet hose 1/4"M - 1/8"M-BSP, ø 5mm (3/16") L = 3m (118")		75922

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Grinders for carbide burrs and mounted points

44 to 100 Watts (0.06 to 0.13 hp) - 60000 to 100000 rpm

A





B

C





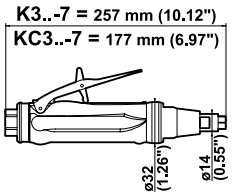
D

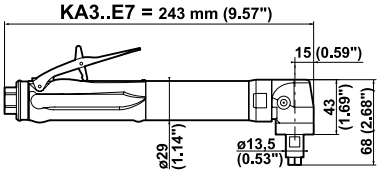
Caution: comply with the speeds recommended by component and abrasive manufacturers.

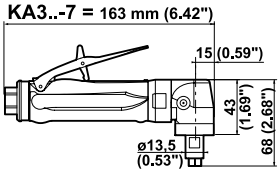
PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION		AIR INLET. THREAD	HOSE INT. Ø	
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
Pencil die grinders														
A	KC1600-T	615 170 313 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
B	KC1600	615 170 315 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
Turbine grinders														
C	KC061000	205 146 638 4	100000	3.00		44	0.06	0.24	0.53	8.5	18.0	1/4	5	3/16
D	05-X-80000	258984	80000	3.17	1/8	75	0.1	0.30	0.66	2.8	5.9	1/8	5	3/16

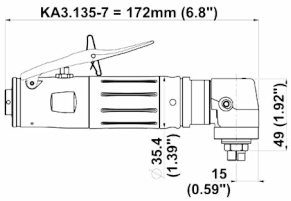
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Accessories

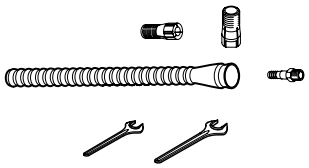


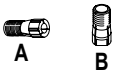


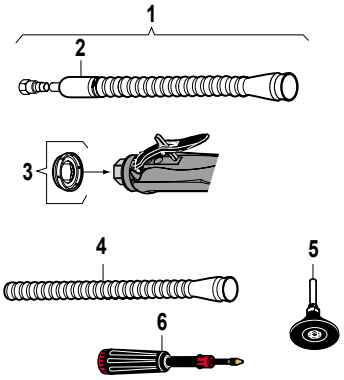




K3..-7 / KC3..-7 / KA3..E7 / KA3..-7 / KA3.135-7







ACCESSORIES INCLUDED

	K3.. / KC3../ KA3..	KA3.135
• CNOMO collet ø 6 mm	**615 526 046 0**	**615 526 079 0**
• Exhaust hose L = 0.8m (31")	**615 875 106 0**	
• 1/4" air hose nipple for 8mm (5/16") ID hose	**615 704 019 0**	
• 1/4" air hose nipple for 6mm (1/4") ID hose		**615 705 009 0**
• Flat wrench, 10mm (25/64")	**615 801 002 0**	**615 801 002 0**
• Flat wrench, 11mm (7/16")	**615 801 003 0**	
• Flat wrench, 14mm		**615 801 005 0**

OPTIONAL ACCESSORIES

		A	B
ITEM		K3.. / KC3.. / KA3..	KA3.135
•	Collet ø 2 mm		**615 526 066 0**
•	CNOMO collet ø 2.5 mm	**615 526 089 0**	**615 526 068 0**
•	CNOMO collet ø 3 mm	**615 526 044 0**	**615 526 069 0**
•	CNOMO collet ø 3.2 mm (1/8")	**615 526 045 0**	
•	Collet ø 3.5mm		**615 526 070 0**
•	CNOMO collet ø 4 mm (5/32")	**615 526 090 0**	**615 526 071 0**
•	CNOMO collet ø 4.5 mm		**615 526 073 0**
•	CNOMO collet ø 5 mm	**615 526 092 0**	**615 526 075 0**
•	Collet ø 5.5mm		**615 526 077 0**
•	CNOMO collet ø 6.4 mm (1/4")	**615 526 047 0**	
•	Collet ø 6.5mm		**615 526 081 0**
•	Collet ø 7mm		**615 526 083 0**
•	Collet ø 7.5mm		**615 526 084 0**
•	Collet ø 8mm (5/16")		**615 526 088 0**
1	Complete silencer kit	**615 396 101 0**	**615 399 423 0**
2	Silencer	**615 574 028 0**	
3	Clippable silencer	**615 396 124 0**	
4	Exhaust hose L = 0.8m (31")		**615 875 106 0**
5	Backing pad ø 50mm		**615 804 098 0**
6	Grease gun (capacity 24g - 0.8 oz.)	**615 990 149 0**	
•	Grease for bevel gear (1kg - 2.2lb)	**615 990 148 0**	







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Grinders for carbide burrs, mounted points and sanding discs

300 and 375 Watts (0.4 and 0.5 hp) - 12000 to 40000 rpm

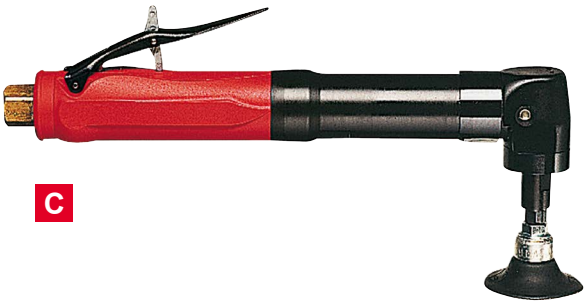
Supplied with CNOMO collet, ø 6mm



A



B



C



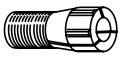
D



E

K3..-7 / KC3..-7 / KA3..E7 / KA3..-7

CNOMO type collet



KA3.135-7

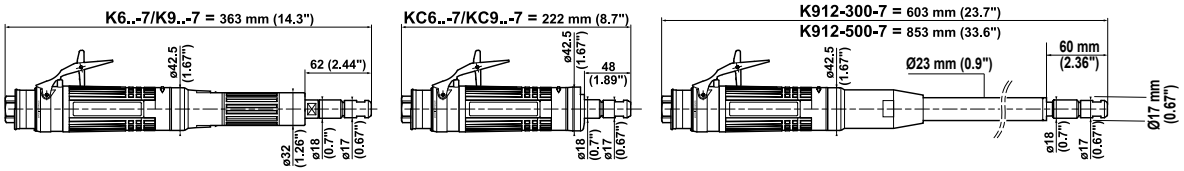


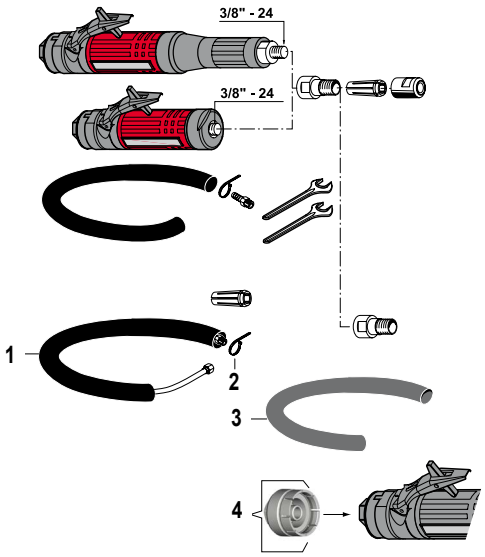
Caution: comply with the speeds recommended by component and abrasive manufacturers. PIC

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
STRAIGHT GRINDERS																
A	K340-7	615 170 036 0	40000	6.4	1/4	375	0.5	0.58	1.28	7.5	16.0	10.0	21	1/4	8	5/16
A	K331- 7	615 170 035 0	31000	6.4	1/4	375	0.5	0.58	1.28	4.5	9.5	9.5	20	1/4	8	5/16
A	K325-7	615 170 034 0	25000	6.4	1/4	375	0.5	0.58	1.28	3.5	7.5	9.5	20	1/4	8	5/16
A	K320-7	615 170 033 0	20000	6.4	1/4	375	0.5	0.58	1.28	2.5	5.0	8.0	17	1/4	8	5/16
B	KC340-7	615 170 032 0	40000	6.4	1/4	375	0.5	0.40	0.88	7.5	16.0	10.0	21	1/4	8	5/16
B	KC331-7	615 170 031 0	31000	6.4	1/4	375	0.5	0.40	0.88	4.5	9.5	9.5	20	1/4	8	5/16
B	KC325-7	615 170 030 0	25000	6.4	1/4	375	0.5	0.40	0.88	3.5	7.5	9.5	20	1/4	8	5/16
B	KC320-7	615 170 029 0	20000	6.4	1/4	375	0.5	0.40	0.88	2.5	5.0	8.0	17	1/4	8	5/16
ANGLE GRINDERS																
C	KA320E7	615 170 047 0	20000	6.4	1/4	375	0.5	0.60	1.32	6.5	13.5	10.0	21	1/4	8	5/16
C	KA312E7	615 170 039 0	12000	6.4	1/4	375	0.5	0.60	1.32	3.0	6.5	9.0	19	1/4	8	5/16
D	KA320-7	615 170 043 0	20000	6.4	1/4	375	0.5	0.50	1.10	6.5	13.5	10.0	21	1/4	8	5/16
D	KA312-7	615 170 037 0	12000	6.4	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16
E	KA3.135-7	615 170 522 0	13500	8.0	5/16	300	0.4	0.60	1.32	9.5	20.0	-	-	1/4	6	1/4

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Accessories





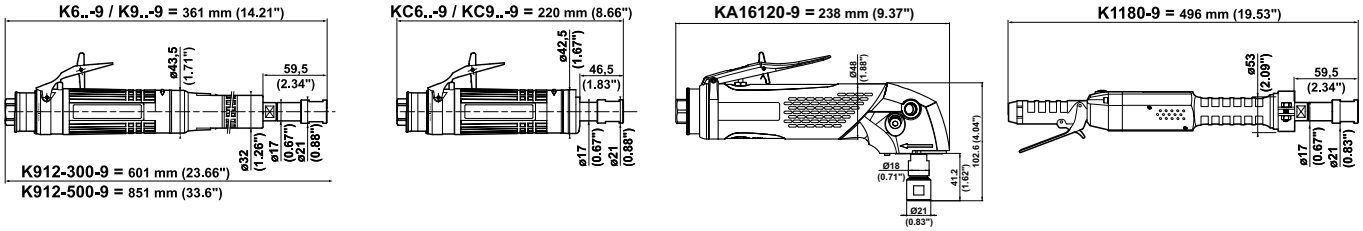
K6..-7 / K9..-7 / KC6..-7 / KC9..-7

ACCESSORIES INCLUDED

	PART NO.
• Collet-holder	615 523 018 0
• CNOMO collet ø 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0

OPTIONAL ACCESSORIES

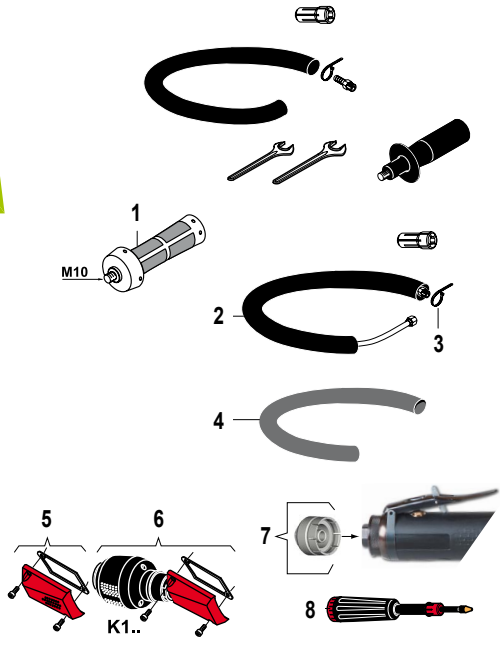
ITEM		PART NO.
•	Collet-holder extension L = 28mm (1.1")	615 523 019 0
•	CNOMO collet ø 3 mm	615 526 048 0
•	CNOMO collet ø 6.35 mm (1/4")	615 526 050 0
•	CNOMO collet ø 8 mm	615 526 051 0
1	Complete silencer kit	615 396 166 0
2	Clamp	615 873 115 0
3	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
4	Clippable silencer	615 396 655 0



K6..-9 / K9..-9 / KC6..-9 / KC9..-9 / KA16120-9 / K1180-9

ACCESSORIES INCLUDED

	K/KC6 / K/KC9 KA16120-9	K1180-9
• Series 200 resilient collet, collet ø 5.55 to 6.35mm (1/4")	615 526 063 0	615 526 063 0
• Series 200 resilient collet, collet ø 8.7 to 9.5mm (3/8")		615 526 065 0
• Exhaust hose L = 1.5m (60")	615 875 113 0	
• Clamp	615 873 415 0	
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	
• 3/8" air hose nipple for 13mm (1/2") ID hose for KA16120-9	615 704 027 0	
• 1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0
• Flat wrench, 14mm	615 801 005 0	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0	615 801 076 0
• Side handle for KA16120-9	615 576 038 0	



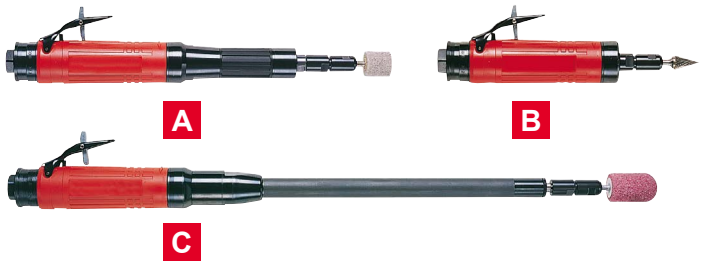
OPTIONAL ACCESSORIES

ITEM		K/KC6 / K/KC9 KA16120-9	K1180-9
•	Series 200 resilient collet, collet ø 2.4 to 3.2mm (1/8")	615 526 061 0	615 526 061 0
•	Series 200 resilient collet, collet ø 5.2 to 6mm	615 526 062 0	615 526 062 0
•	Series 200 resilient collet, collet ø 7.2 to 8mm	615 526 064 0	615 526 064 0
•	Series 200 resilient collet, collet ø 8.7 to 9.5mm (3/8")	615 526 065 0	
1	Vibration-damping handle for KA16120-9	615 576 066 0	
2	Complete silencer kit	615 396 166 0	
3	Clamp	615 873 115 0	
4	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0	
5	Silencer kit		615 399 298 0
6	Silencer kit		615 399 459 0
7	Clippable silencer	615 396 655 0	
7	Clippable silencer for KA16120-9	615 396 957 0	
8	Grease gun (capacity 24g - 0.8oz) for KA16120-9	615 990 149 0	
•	Grease for bevel gear (1kg - 2.2lb) for KA16120-9	615 990 148 0	

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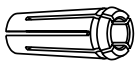
Grinders for carbide burrs and mounted points

600 to 1700 Watts (0.8 to 2.3 hp) - 12000 to 28000 rpm



Supplied with CNOMO collet, ø 6mm

K6..-7 / K9..-7 / KC6..-7 / KC9..-7
CNOMO type collet



Supplied with series 200 resilient collet, ø 5.55 to 6.35mm (1/4") & ø 8.7 to 9.5mm (3/8")



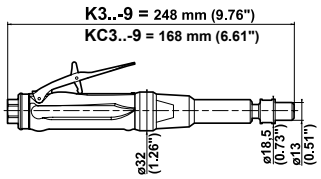
K6..-9 / KC9..-9 / KC6..-9 / KC9..-9 / KA1620-9 / K1180-9
Series 200 collet

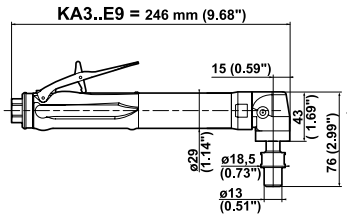
Caution: comply with the speeds recommended by component and abrasive manufacturers.

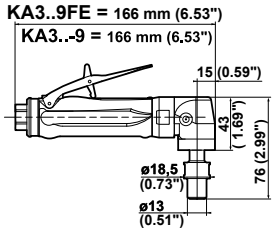
PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET. THREAD	HOSE INT. Ø	
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
CNOMO collet																
A	K628-7	615 170 107 0	28000	8	5/16	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
A	K624-7	615 170 106 0	24000	8	5/16	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
A	K922-7	615 170 119 0	22000	8	5/16	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
A	K619-7	615 170 105 0	19000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K918-7	615 170 117 0	18000	8	5/16	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
A	K615-7	615 170 104 0	15000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K915-7	615 170 114 0	15000	8	5/16	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
A	K912-7	615 170 110 0	12000	8	5/16	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
B	KC628-7	615 170 126 0	28000	8	5/16	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
B	KC624-7	615 170 125 0	24000	8	5/16	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
B	KC922-7	615 170 130 0	22000	8	5/16	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
B	KC619-7	615 170 124 0	19000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC918-7	615 170 129 0	18000	8	5/16	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
B	KC615-7	615 170 123 0	15000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC915-7	615 170 128 0	15000	8	5/16	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
B	KC912-7	615 170 127 0	12000	8	5/16	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
C	K912-300-7	615 170 108 0	12000	8	5/16	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
C	K912-500-7	615 170 109 0	12000	8	5/16	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8
SERIES 200 collet																
D	K628-9	615 170 150 0	28000	9.5	3/8	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
D	K624-9	615 170 151 0	24000	9.5	3/8	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
D	K922-9	615 170 152 0	22000	9.5	3/8	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
D	K619-9	615 170 153 0	19000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K918-9	615 170 154 0	18000	9.5	3/8	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
D	K615-9	615 170 155 0	15000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K915-9	615 170 156 0	15000	9.5	3/8	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
D	K912-9	615 170 157 0	12000	9.5	3/8	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
E	KC628-9	615 170 158 0	28000	9.5	3/8	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
E	KC624-9	615 170 159 0	24000	9.5	3/8	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
E	KC922-9	615 170 160 0	22000	9.5	3/8	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
E	KC619-9	615 170 161 0	19000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC918-9	615 170 162 0	18000	9.5	3/8	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
E	KC615-9	615 170 163 0	15000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC915-9	615 170 164 0	15000	9.5	3/8	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
E	KC912-9	615 170 165 0	12000	9.5	3/8	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
F	K912-300-9	615 170 169 0	12000	9.5	3/8	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
F	K912-500-9	615 170 170 0	12000	9.5	3/8	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8
G	KA16120-9	615 170 443 0	12000	9.5	3/8	1700	2.30	1.4	3.2	20	42	32	68	3/8	13	1/2
H	K1180-9	615 170 246 0	18000	9.5	3/8	1200	1.61	2.5	5.9	12	25	35	74	1/2	15	5/8

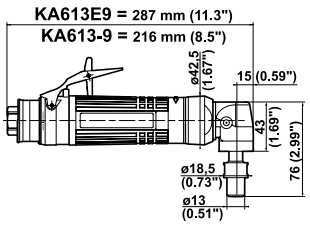
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Accessories

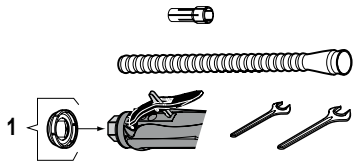






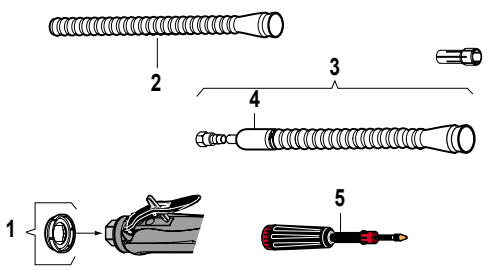


4734 / K3..-9 / KC3..-9 / KA3..E9 / KA3..-9 / KA3..-9FE



ACCESSORIES INCLUDED

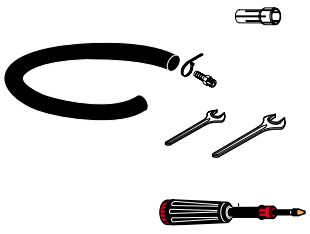
ITEM		4734	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
•	Series 300 resilient collet, ø 2.4 to 3.2 mm	615 526 055 0	615 526 059 0	615 526 059 0
•	Exhaust hose L = 0.8m (31")	222453	615 875 106 0	
•	Clamp	235203		
•	1/4" air hose nipple for 8mm (5/16") ID hose		615 704 019 0	615 704 019 0
1	Clippable silencer			615 396 124 0
•	Flat wrench, 11mm (7/16")	199003	615 801 003 0	615 801 003 0
•	Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
•	Flat wrench, 16mm (5/8" A/F)	18583		



OPTIONAL ACCESSORIES

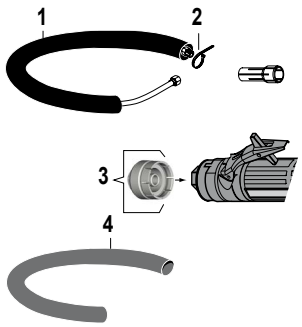
ITEM		4734	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
•	Series 300 resilient collet, ø 0.4 to 1.2mm	615 526 052 0	615 526 052 0	615 526 052 0
•	Series 300 resilient collet, ø 1.2 to 2mm	615 526 053 0	615 526 053 0	615 526 053 0
•	Series 300 resilient collet, ø 1.7 to 2.5mm	615 526 054 0	615 526 054 0	615 526 054 0
•	Series 300 resilient collet, ø 2.4 to 3.2mm (1/8")	615 526 055 0	615 526 055 0	615 526 055 0
•	Series 300 resilient collet, ø 3.16 to 3.96mm	615 526 056 0	615 526 056 0	615 526 056 0
•	Series 300 resilient collet, ø 3.95 to 4.75mm	615 526 057 0	615 526 057 0	615 526 057 0
•	Series 300 resilient collet, ø 4.75 to 5.55mm	615 526 058 0	615 526 058 0	615 526 058 0
2	Exhaust hose L = 0.8 m (31")			615 875 106 0
3	Complete silencer kit		615 396 101 0	615 396 101 0
4	Silencer		615 574 028 0	615 574 028 0
1	Clippable silencer		615 396 124 0	
5	Grease gun (capacity 24g - 0.8 oz.)		615 990 149 0	615 990 149 0
•	Grease for bevel gear (1kg -2.2 lb.)		615 990 148 0	615 990 148 0

KA613E9 / KA613-9



ACCESSORIES INCLUDED

		PART NO.
•	Series 300 resilient collet, ø 5.55 to 6.35mm (1/4")	615 526 059 0
•	Exhaust hose L = 1.5m (60")	615 875 113 0
•	Clamp	615 873 415 0
•	3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
•	Flat wrench, 11mm (7/16")	615 801 003 0
•	Flat wrench, 17mm (1-1/16")	615 801 032 0
•	Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0



OPTIONAL ACCESSORIES

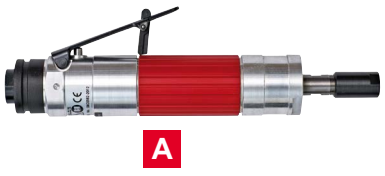
ITEM		PART NO.
•	Series 300 resilient collet, ø 0.4 to 1.2 mm (3/64")	615 526 052 0
•	Series 300 resilient collet, ø 1.2 to 2 mm (5/64")	615 526 053 0
•	Series 300 resilient collet, ø 1.7 to 2.5 mm (3/32")	615 526 054 0
•	Series 300 resilient collet, ø 2.4 to 3.2 mm (1/8")	615 526 055 0
•	Series 300 resilient collet, ø 3.16 to 3.96 mm (5/32")	615 526 056 0
•	Series 300 resilient collet, ø 3.95 to 4.75 mm (3/16")	615 526 057 0
•	Series 300 resilient collet, ø 4.75 to 5.55 mm (7/32")	615 526 058 0
1	Complete silencer kit	615 396 166 0
2	Clamp	615 873 115 0
3	Clippable silencer	615 396 655 0
4	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
•	Grease for bevel gear (1 kg - 2.2 lb.)	615 990 148 0

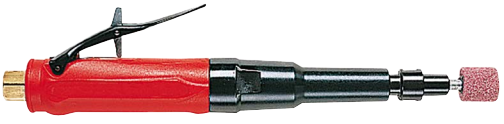
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Grinders for carbide burrs,mounted points and sanding discs

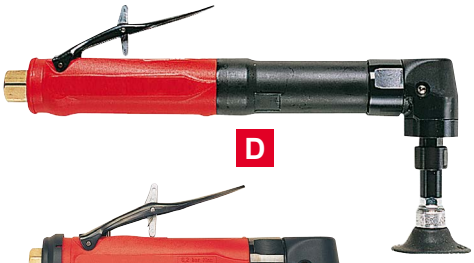
300 to 600 Watts (0.4 to 0.8 hp) - 9000 to 40000 rpm

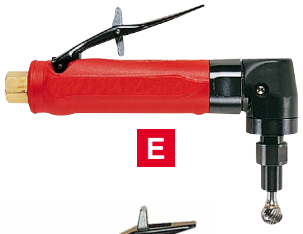
Supplied with series 300 resilient collet, ø 5.55 to 6.35mm (1/4")


A


B


C


D


E


Front Exhaust F


H


G

K3..-9 / KC3..-9 / KA3..(E)9 / KA3..-9FE / KA613(E)9
Series 300 collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT Ø	
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
STRAIGHT GRINDERS																
A	4734	4734	20000	6.35	1/4	300	0.4	0.60	1.32	8.5	18	10	21	1/4	10	3/8
B	K340-9	615 170 139 0	40000	6.35	1/4	375	0.5	0.57	1.26	7.5	16	10	21	1/4	8	5/16
B	K331-9	615 170 140 0	31000	6.35	1/4	375	0.5	0.57	1.26	4.5	9.5	9.5	20	1/4	8	5/16
B	K325-9	615 170 141 0	25000	6.35	1/4	375	0.5	0.57	1.26	3.5	7.5	9.5	20	1/4	8	5/16
B	K320-9	615 170 142 0	20000	6.35	1/4	375	0.5	0.57	1.26	2.5	5.0	8.0	17	1/4	8	5/16
C	KC340-9	615 170 143 0	40000	6.35	1/4	375	0.5	0.38	0.84	7.5	16	10	21	1/4	8	5/16
C	KC331-9	615 170 144 0	31000	6.35	1/4	375	0.5	0.38	0.84	4.5	9.5	9.5	20	1/4	8	5/16
C	KC325-9	615 170 145 0	25000	6.35	1/4	375	0.5	0.38	0.84	3.5	7.5	9.5	20	1/4	8	5/16
C	KC320-9	615 170 027 0	20000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16
C	KC318-9	615 170 196 0	18000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16
ANGLE GRINDERS																
D	KA320E9	615 170 146 0	20000	6.35	1/4	375	0.5	0.61	1.35	6.5	13.5	10	21	1/4	8	5/16
D	KA312E9	615 170 147 0	12000	6.35	1/4	375	0.5	0.61	1.35	3.0	6.5	9.0	9	1/4	8	5/16
E	KA320-9	615 170 148 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	KA318-9	615 170 461 0	18000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	KA312-9	615 170 149 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16
E	KA309-9	615 170 266 0	9000	6.35	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16
F	KA320-9FE*	615 170 206 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
F	KA312-9FE*	615 170 205 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16
G	KA613E9	615 170 136 0	13000	6.35	1/4	600	0.8	1.40	3.10	10	21	15	32	3/8	10	3/8
H	KA613-9	615 170 135 0	13000	6.35	1/4	600	0.8	1.10	2.40	10	21	15	32	3/8	10	3/8

** Front Exhaust models*

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Routers

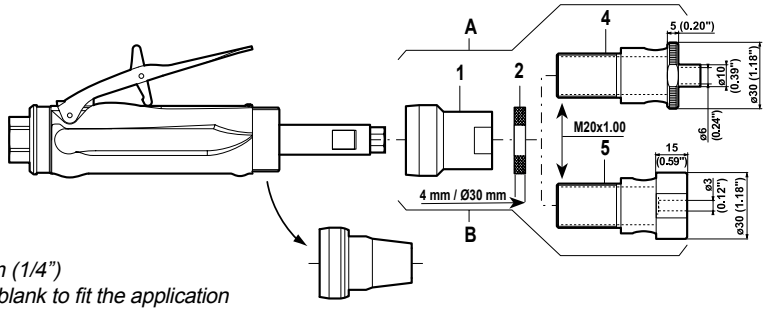
375 to 900 Watts (0.5 to 1.21 hp) - 12000 to 40000 rpm

375 W (0.5hp) - 20000 to 40000 rpm

CNOMO type collet



A



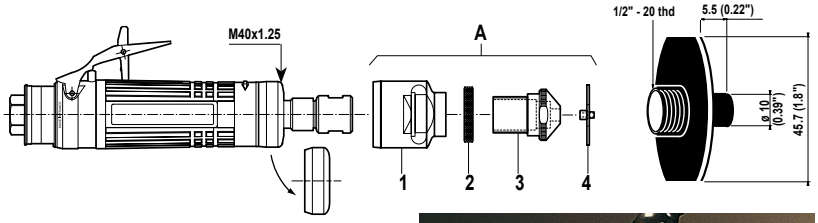
615 396 069 0: Machined routing kit *for burr, max ø 6.4mm (1/4")*
615 396 070 0: Blank routing kit *allowing you to adapt the blank to fit the application*

600 - 900 W (0.8 - 1.21hp) - 12000 to 28000 rpm

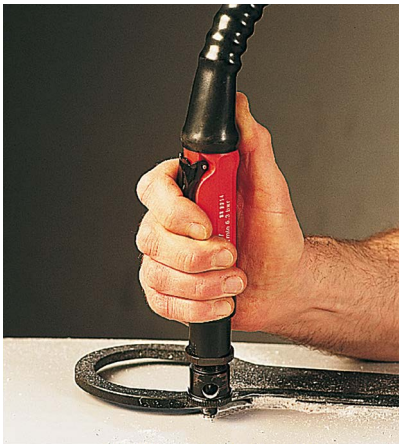
CNOMO type or Series 200 collet



B



615 396 289 0: Machined routing kit *for burr, max ø 6.4mm (1/4")*



OPTIONAL ACCESSORIES

ITEM		KC3..	KC6../ KC9..
A	Machined routing kit	615 396 069 0	615 396 289 0
B	Blank routing kit (item 1, 2, 5)	615 396 070 0	
1	Flange	615 595 231 0	615 595 245 0
2	Adjusting nut	615 607 140 0	615 607 145 0
•	Circlip		615 687 056 0
•	Bearing		615 758 127 0
3	Router nose		615 542 132 2
4	Machined routing guide	615 542 125 0	615 542 131 0
5	Blank routing guide	615 542 125 2	

If you need a complete tool use the KC624-9RT *(24000 rpm) Part No.* ***615 170 290 0***
If you need a specific speed or a higher power:
Select the motor, the speed of your choice below then add the routing kit.
For example: Tool with Series 200 collet - 900 W -22000 rpm (KC922-9) + routing kit Order 615 170 160 0 + 615 396 289 0

Caution: comply with the speeds recommended by component and abrasive manufacturers.

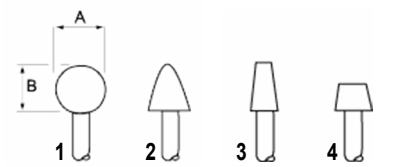
PIC REF	MODEL	FREE SPEED	POWER		PART NO.			ROUTING KIT	
					CNOMO COLLET (-7)	SERIES 200 COLLET (-9)		MACHINED	BLANK
		rpm	W	hp					
375 W (0.5 hp) - CNOMO type collet									
A	KC340-7	40000	375	0.5	615 170 032 0		+	615 396 069 0	615 396 070 0
A	KC331-7	31000	375	0.5	615 170 031 0		+		
A	KC325-7	25000	375	0.5	615 170 030 0		+		
A	KC320-7	20000	375	0.5	615 170 029 0		+		
600 - 900 W (0.8 - 1.21 hp) - CNOMO type or Series 200 collet									
B	KC628-.	28000	600	0.80	615 170 126 0	615 170 158 0	+	615 396 289 0	
B	KC624-.	24000	600	0.80	615 170 125 0	615 170 159 0	+		
B	KC922-.	22000	900	1.21	615 170 130 0	615 170 160 0	+		
B	KC619-.	19000	600	0.80	615 170 124 0	615 170 161 0	+		
B	KC918-.	18000	900	1.21	615 170 129 0	615 170 162 0	+		
B	KC615-.	15000	600	0.80	615 170 123 0	615 170 163 0	+		
B	KC915-.	15000	900	1.21	615 170 128 0	615 170 164 0	+		
B	KC912-.	12000	900	1.21	615 170 127 0	615 170 165 0	+		

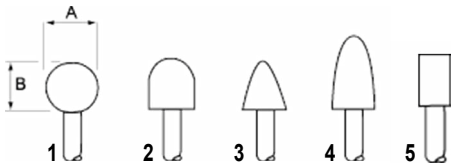
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Collet Grinder Accessories



Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.





MOUNTED POINTS 3mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/8")

PIC REF	MAX SPEED	A		B		PART NO.
	rpm	mm	in.	mm	in.	
1	104000	5	0.19	5	0.19	38582
2	104000	5	0.19	8	0.31	38522
3	105000	4	0.16	4	0.16	38562
4	81000	6	0.25	6	0.25	38542

MOUNTED POINTS 6mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/4")

PIC REF	MAX SPEED	A		B		PART NO.
	rpm	mm	in.	mm	in.	
1	59000	16	0.62	16	0.62	435983
2	50000	20	0.79	16	0.62	435993
3	45000	20	0.79	28	1.10	436003
4	48000	20	0.79	32	1.26	436013
5	38000	25	1.00	3	0.11	

Recommended Speeds For Tungsten Carbide Burrs - rpm x 1000

MATERIAL	HEAD DIAMETER				
	3mm (1/8")	6mm (1/4")	10mm (3/8")	13mm (1/2")	16mm (5/8")
Alum, Zinc Base, Plastics	30-90	15-70	10-50	17-38	6-30
Cast Iron, Brass, Copper, Bronze	45-90	23-60	15-40	11-30	9-24
Mild Steel	60-90	45-60	30-40	22-30	18-24
Titanium, Stainless, Hardened Steels, Ceramics	60-90	30-45	19-30	15-22	12-18

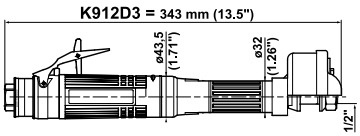
Abrasive Discs

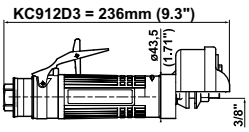
SPEED	GRIT	PART NO.
rpm		
25000	P40	615 804 099 0
25000	P60	615 804 100 0
25000	P80	615 804 101 0
25000	P120	615 804 102 0

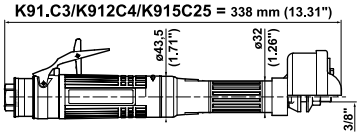


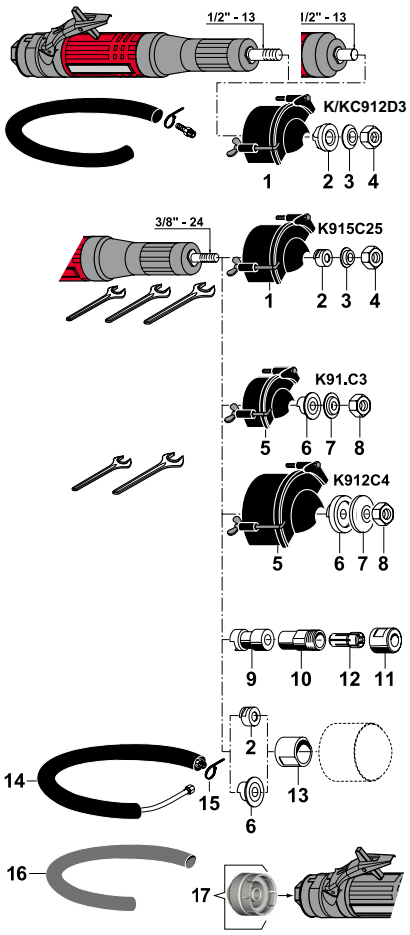
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Accessories









K9..

ACCESSORIES INCLUDED

ITEM		K/KC912D3 Ø 80mm (3")	K915C25 Ø 63mm (2 1/2")
•	Exhaust hose L = 1.5m (60")	**615 875 113 0**	**615 875 113 0**
•	Clamp	**615 873 415 0**	**615 873 415 0**
•	3/8" air hose nipple for 10mm ID hose	**615 704 017 0**	**615 704 017 0**
1	Wheel guard for K912D3	**615 504 151 0**	**615 504 150 0**
1	Wheel guard for KC912D3	**615 504 214 0**	
2	Rear flange	**615 503 127 0**	**615 503 126 0**
3	Front flange	**615 502 044 0**	**615 502 043 0**
4	Locknut	**615 608 045 0**	**615 608 044 0**
•	Flat wrench 17mm (1-1/16")		**615 801 032 0**
•	Flat wrench 14.3mm (9/16")		**615 801 074 0**
•	Flat wrench 19mm (3/4")	**615 801 076 0**	

ITEM		K91.C3 Ø 80mm (3")	K912C4 Ø 100mm (4")
5	Wheel guard	**615 504 151 0**	**615 504 152 0**
6	Rear flange	**615 503 125 0**	**615 503 131 0**
7	Front flange	**615 502 013 0**	**615 502 063 0**
8	Locknut	**615 608 044 0**	**615 608 044 0**
•	Flat wrench. 14.3mm (9/16")	**615 801 074 0**	**615 801 074 0**
•	Flat wrench. 19mm (3/4")	**615 801 076 0**	**615 801 076 0**

OPTIONAL ACCESSORIES

ITEM		PART NO.
9	Spacer for collet-holder	**615 666 149 0**
10	Series 200 collet-holder	**615 523 023 0**
11	Series 200 collet nut	**615 607 144 0**
12	Series 200 Erickson collet	**(see page 214)**
13	Spacer for threaded cone wheel 3/8"	**615 503 516 0**
•	Rear flange supplied with tool **615 503 125 0 or 615 503 126 0**	
14	Complete silencer kit	**615 396 166 0**
15	Clamp	**615 873 115 0**
16	Reinforced cloth-lined exhaust hose L = 0.75 m (30")	**615 875 116 0**
17	Clippable silencer	**615 396 655 0**





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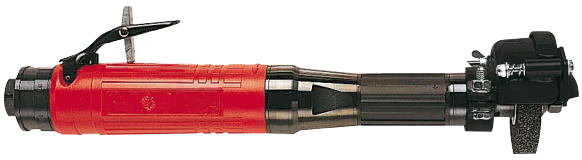
Grinders for cone wheels and type 1 wheels

ø 63mm (2-1/2") - ø 80mm (3") - ø 100mm (4")

900 Watts (1.21 hp) - 12000 to 18000 rpm



A



B



C

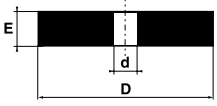


D

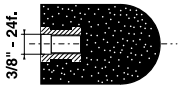


E

Type 1 wheel



Wheel type 16 - 18 - 18R and 19



*** Reinforced resinoid wheel**

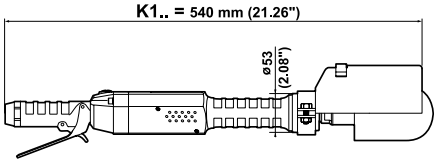
Caution: comply with the speeds recommended by component and abrasive manufacturers.

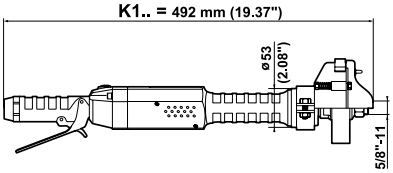
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
											AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K918C3	615 170 118 0	18000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K915C3	615 170 116 0	15000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K912C3	615 170 111 0	12000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
B	K915C25	615 170 115 0	15000	63x13x9.52	2-1/2x1/2x3/8	3/8-24	900	1.21	1.6	3.5	7	15	16	34	3/8	10	3/8
C	K912D3	615 170 113 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
D	KC912D3	615 170 491 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.3	2.9	7	15	16	34	3/8	10	3/8
E	K912C4	615 170 112 0	12000	100x13x9.52	4x1/2x3/8	3/8-24	900	1.21	1.8	4.0	7	15	16	34	3/8	10	3/8

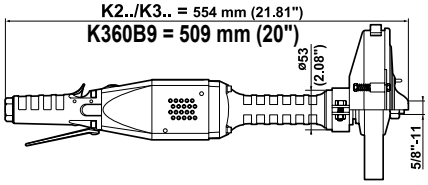
3/8"-24 UNF - 1/2"-13 UNC

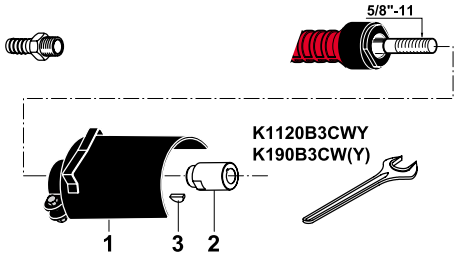
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Accessories





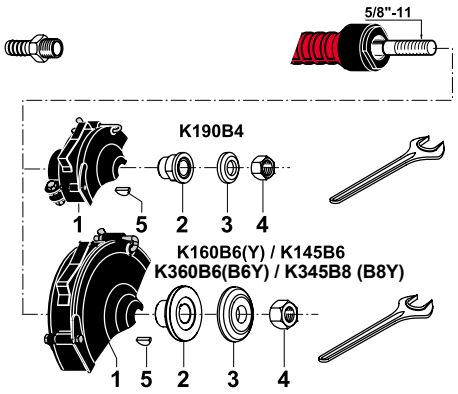




K1120B3CWY / K190B3CW(CWY) - ø 80mm (3")

ACCESSORIES INCLUDED

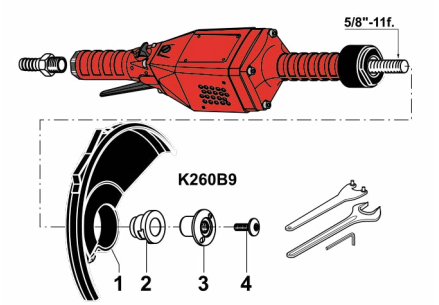
ITEM		PART NO.
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1	Wheel guard	615 504 080 0
2	Rear flange	615 503 095 0
3	Woodruff key	615 630 019 0
•	Flat wrench, 27mm (1-1/16")	615 801 077 0



K190B4 / K.60B6(B6Y) / K145B6 / K345B8(B8Y)

ACCESSORIES INCLUDED

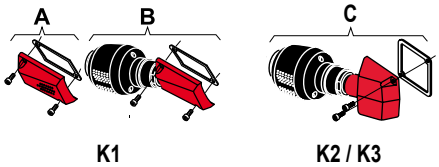
ITEM		K190B4 Ø 100 mm (4")	K.60B6 (B6Y) K145B6 Ø 150 mm (6")	K345B8 (B8Y) Ø 200 mm (8")
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
1	Wheel guard	615 504 154 0	615 504 079 0	615 504 078 0
2	Rear flange	615 503 094 0	615 503 028 0	615 503 004 0
3	Front flange	615 502 046 0	615 502 027 0	615 502 007 0
4	Nut	615 608 006 0	615 608 006 0	615 608 006 0
5	Woodruff key	615 630 019 0	615 630 019 0	615 630 019 0
•	Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0



K360B9 - ø 230 mm (9")

ACCESSORIES INCLUDED

ITEM		PART NO.
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1	Wheel guard	615 504 161 0
2	Rear flange	615 503 103 0
3	Nut	615 542 104 0
4	Safety screw	615 614 034 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0
•	Flat wrench, 27mm (1-1/16")	615 801 077 0
•	Hex. key 6 mm	615 802 056 0



OPTIONAL ACCESSORIES

ITEM		K1..	K2.. / K3..
A	Silencer kit	615 399 298 0	
B	Silencer kit	615 399 459 0	
C	Silencer kit		615 399 460 0



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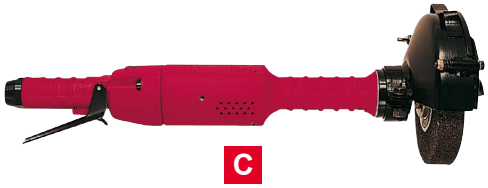
Grinders for cone wheels and type 1 wheels

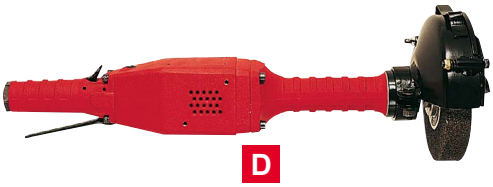
ø 80mm (3”) - ø 100mm (4”) - ø 150mm (6”)
ø 200mm (8”) - ø 230mm (9”)

1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 12000 rpm

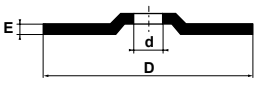

A


B

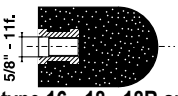

C


D

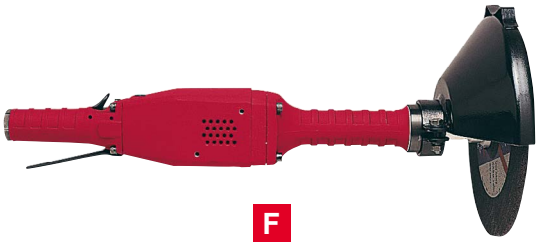

E

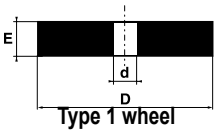


Type 27-42 wheel



Wheel. type 16 - 18 - 18R and 19


F



Type 1 wheel

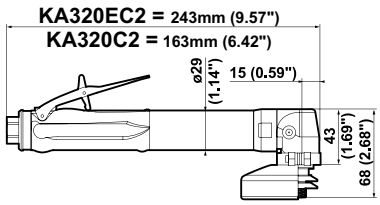
Caution: comply with the speeds recommended by component and abrasive manufacturers.

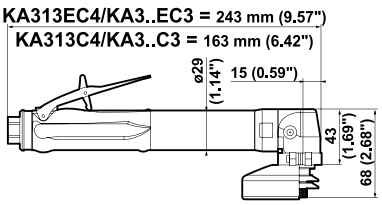
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K190B3CW	615 170 005 0	9000	80	3	5/8-11	1200	1.61	3.5	7.7	9	19	27	57	1/2	15	5/8
B	K190B4	615 170 004 0	9000	100x25x15.9	4x1x5/8	5/8-11	1200	1.61	3.2	7.0	9	19	27	57	1/2	15	5/8
C	K160B6	615 170 003 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
C	K145B6	615 170 002 0	4500	150x25x15.9	6x1x5/8	5/8-11	1000	1.34	3.5	7.7	5	10	20	42	1/2	15	5/8
D	K360B6	615 170 010 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8	615 170 009 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8
F	K360B9	615 170 521 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
For USA Market only (to ANSI B186.1)																	
A	K1120B3CWY	615 170 171 0	12000	80	3	5/8-11	1300	1.74	3.0	6.6	16	34	30	64	1/2	15	5/8
A	K190B3CWY	615 170 172 0	9000	80	3	5/8-11	1200	1.61	3.0	6.6	9	19	27	57	1/2	15	5/8
C	K160B6Y	615 170 173 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
D	K360B6Y	615 170 177 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8Y	615 170 178 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8

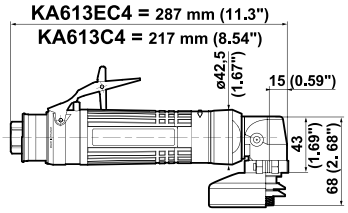
5/8”-11 UNC

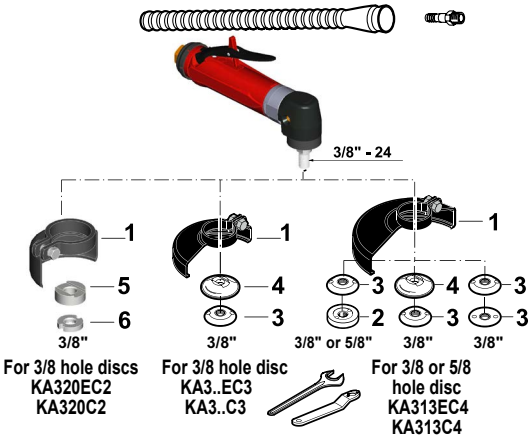
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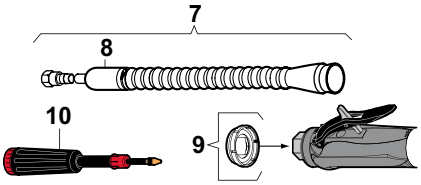
Accessories

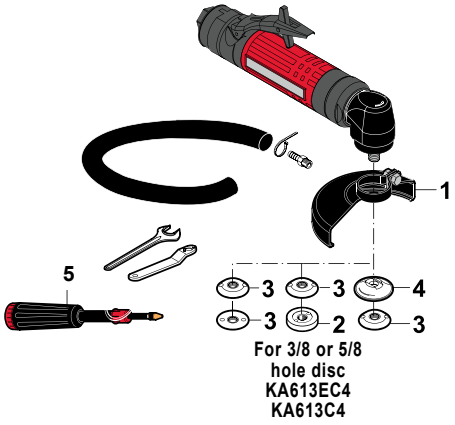


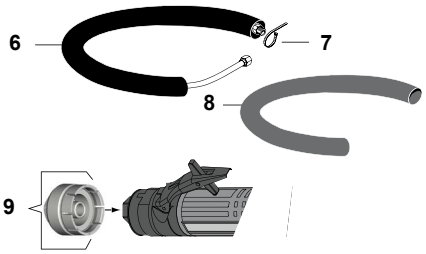












KA320EC2/C2 / KA3..EC3/C3 / KA313EC4/C4C

ACCESSORIES INCLUDED

ITEM		KA3..EC2 KA320C2 Ø 51mm (2")	KA3..EC3 KA3..C3 Ø 76mm (3")	KA313EC4 KA313C4 Ø 100mm (4")
•	Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0	615 875 106 0
•	1/4" air hose nipple for 8mm ID hose	615 704 019 0	615 704 019 0	615 704 019 0
1	Wheel guard	615 504 207 0	615 504 155 0	615 504 160 0
2	Flange			615 606 515 0
3	Flange		615 502 064 0	615 502 064 0
4	Flange		615 503 144 0	615 503 144 0
5	Flange	615 502 082 0		
6	Nut	894 016 276 5		
•	Pin wrench, 20-3mm		615 802 008 0	615 802 008 0
•	Pin wrench	615 802 008 0		
•	Flat wrench, 11mm (7/16")	615 801 003 0	615 801 003 0	615 801 003 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
7	Complete silencer kit	615 396 101 0
8	Silencer	615 574 028 0
9	Clippable silencer	615 396 124 0
10	Grease gun includes (24g - 0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

KA613EC4 / KA613C4 - Ø 100mm (4")

ACCESSORIES INCLUDED

ITEM		KA613EC4 KA613C4
•	Exhaust hose L = 1.5m (60")	615 875 113 0
•	Clamp	615 873 415 0
•	3/8" air hose nipple for 10mm ID hose	615 704 017 0
1	Wheel guard	615 504 160 0
2	Flange	615 606 515 0
3	Flange	615 502 064 0
4	Flange	615 503 144 0
5	Grease gun includes (24g - 0.8oz)	615 990 149 0
•	Pin wrench, 20-3mm	615 802 008 0
•	Flat wrench, 11mm (7/16")	615 801 003 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
6	Complete silencer kit	615 396 166 0
7	Clamp	615 873 115 0
8	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
9	Clippable silencer	615 396 655 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



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Grinders for depressed center wheels and cut-off wheels Ø 51mm (2") - Ø 76mm (3") - Ø 100mm (4")

375 and 600 Watts (0.5 and 0.8 hp) - 13000 to 20000 rpm


A


B


C


D

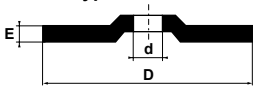

E


F

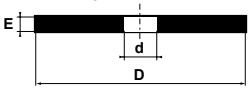

G


H

Type 27-42 wheel



Type 41 wheel



Caution: comply with the speeds recommended by component and abrasive manufacturers

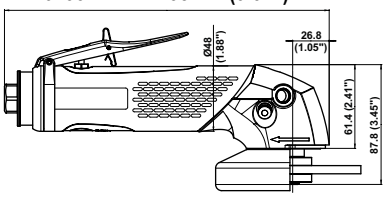
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA320EC2	615 170 487 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16
B	KA320EC3	615 170 046 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16
B	KA318EC3	615 170 045 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	4.5	9.5	9.5	20	1/4	8	5/16
C	KA313EC4	615 170 050 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.83	1.83	3.0	6.5	9.0	19	1/4	8	5/16
D	KA320C2	615 170 488 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16
E	KA320C3	615 170 042 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16
E	KA318C3	615 170 041 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	4.5	9.5	9.5	20	1/4	8	5/16
F	KA313C4	615 170 049 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.66	1.45	3.0	6.5	9.0	19	1/4	8	5/16
G	KA613EC4	615 170 138 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.50	3.30	10.0	21.0	15.0	32	3/8	10	3/8
H	KA613C4	615 170 137 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.20	2.60	10.0	21.0	15.0	32	3/8	10	3/8

3/8"-24 UNF

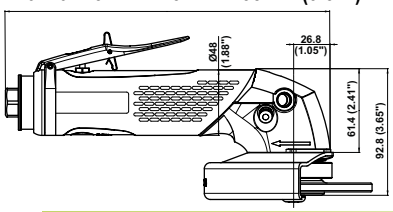
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Accessories

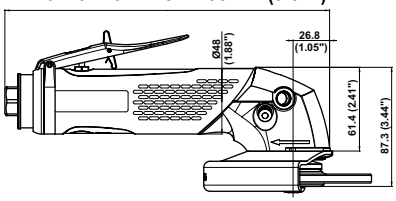
KA16135C4FK = 238mm (9.37")

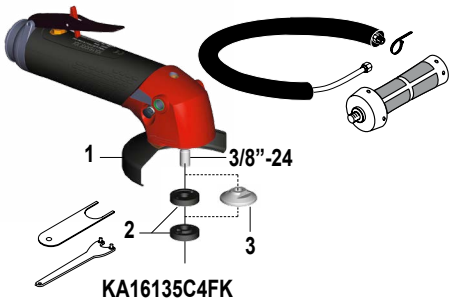


KA16120A45VK / B45VK = 238mm (9.37")



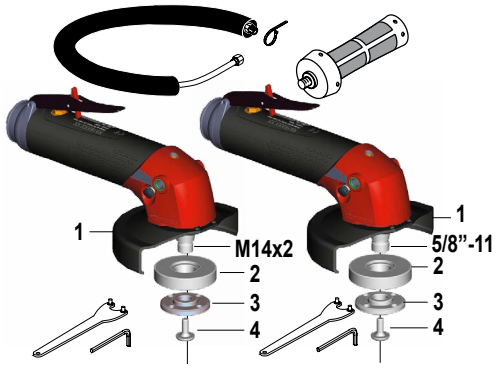
KA16120A45 / B45 = 238mm (9.37")



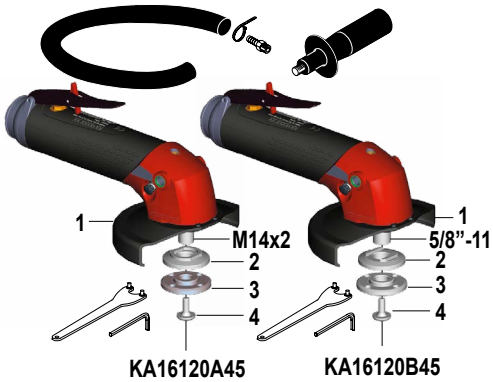


KA16135C4FK

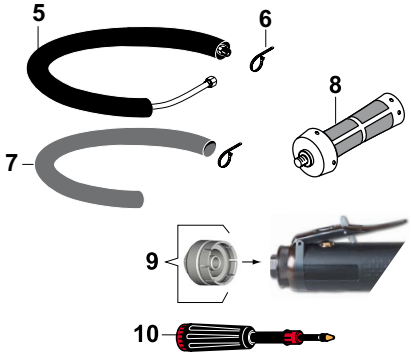




KA16120A45VK KA16120B45VK



KA16120A45 KA16120B45



KA16135C4FK - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM		KA16135C4FK 3/8"-24
•	Complete silencer kit	615 396 166 0
•	Clamp	615 263 024 0
•	Vibration-damping side handle	615 576 066 0
1	Wheel guard	615 504 196 0
2	Flange (Qty 2)	615 606 515 0
3	Rear flange	615 503 515 0
•	Pin wrench 20-3mm	615 802 008 0
•	Flat wrench, 16mm (5/8")	615 802 512 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
4	Clippable silencer	615 396 957 0
5	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0

KA16120A45VK - KA16120B45VK - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM		KA16120A45VK M14x2	KA16120B45VK 5/8' -11
•	Complete silencer kit	615 396 166 0	615 396 166 0
•	Clamp	615 263 024 0	615 263 024 0
•	Vibration-damping side handle	615 576 066 0	615 576 066 0
1	Multi-position guard	615 504 195 0	615 504 195 0
2	Auto-balancer	615 990 181 0	615 990 181 0
3	Front flange	615 502 066 0	615 502 067 0
4	Safety screw	615 614 076 0	615 614 076 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

KA16120A45 - KA16120B45 - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM		KA16120A45 M14x2	KA16120B45 5/8' -11
•	Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
•	Clamp	615 263 024 0	615 263 024 0
•	3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0
•	Side handle	615 576 038 0	615 576 038 0
1	Multi-position guard	615 504 198 0	615 504 198 0
2	Rear flange	615 503 134 0	615 503 141 0
3	Front flange	615 502 066 0	615 502 067 0
4	Safety screw	615 614 076 0	615 614 076 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
5	Complete silencer kit	615 396 166 0
6	Clamp	615 263 024 0
7	Reinforced cloth-lined exhaust hose L= 0.75m (30")	615 875 116 0
8	Vibration-damping side handle	615 576 066 0
9	Clippable silencer	615 396 957 0
10	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1 kg - 2.2lb)	615 990 148 0

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Grinders for depressed center wheels,cut-off wheels and flap wheel ø 100mm (4") - ø 115mm (4.5")

1700 Watts (2.3 hp) - 12000 and 13500 rpm



Fixed wheel guard

Multi-position guard



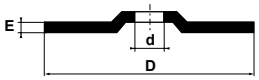
A



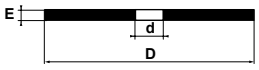
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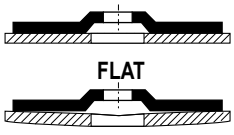
Type 27-42 wheel



Type 41 wheel



Depressed centre flap wheels



Caution: comply with the speeds recommended by component and abrasive manufacturers.

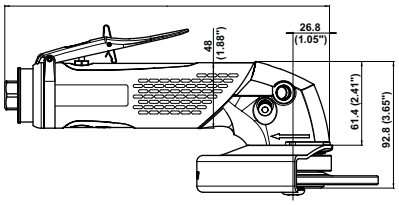
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
FIXED WHEEL GUARD																	
•	**KA16135C4FK**	**615 170 441 0**	13500	100x6.4x16	4x1/4x5/8	3/8-24	1700	2.3	1.53	3.4	25	53	35	74	3/8	13	1/2
MULTI-POSITION GUARD																	
A	**KA16120A45VK**	**615 170 456 0**	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
A	**KA16120B45VK**	**615 170 458 0**	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
B	**KA16120A45**	**615 170 455 0**	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2
B	**KA16120B45**	**615 170 457 0**	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

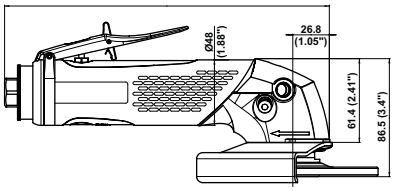
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Accessories

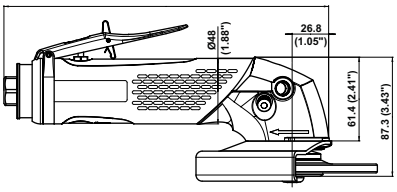
KA16120A5VK / B5VK = 238mm (9.37")

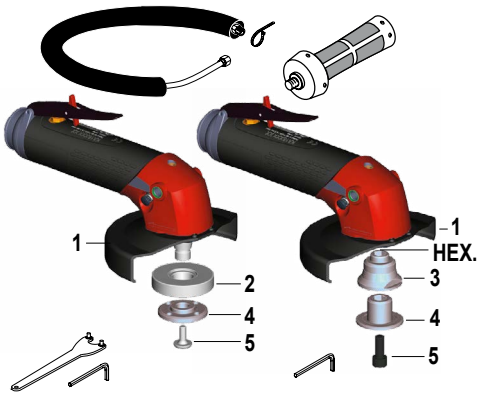


KA16120H5K / H5 = 238mm (9.37")



KA16120A5 / B5 = 238mm (9.37")





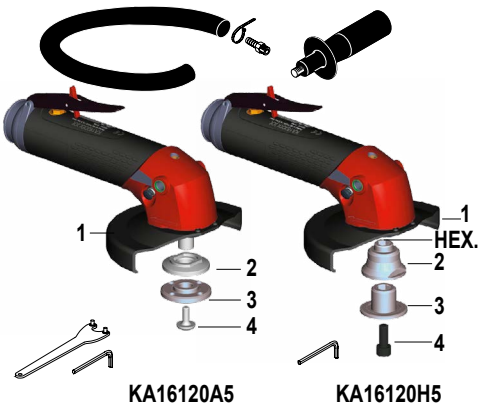
KA16120A5VK
KA16120B5VK

KA16120H5K

KA16120A5VK / B5VK / H5K - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM		KA16120A5VK M14x2	KA16120B5VK 5/8-11	KA16120H5K Hex.
•	Complete silencer kit	615 396 166 0	615 396 166 0	615 396 166 0
•	Clamp	615 263 024 0	615 263 024 0	615 263 024 0
•	Vibration-damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
1	Multi-position guard	615 504 193 0	615 504 193 0	615 504 197 0
2	Auto-balancer	615 990 181 0	615 990 181 0	
3	Rear flange			615 503 124 0
4	Front flange	615 502 066 0	615 502 067 0	615 502 062 0
5	Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
•	Hex. key 6mm			615 802 056 0
•	Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	



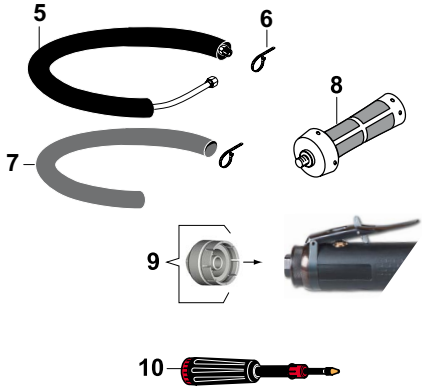
KA16120A5
KA16120B5

KA16120H5

KA16120A5 / B5 / H5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM		KA16120A5 M14x2	KA16120B5 5/8-11	KA16120H5 Hex.
•	Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
•	Clamp	615 263 024 0	615 263 024 0	615 263 024 0
•	3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0	615 704 027 0
•	Side handle	615 576 038 0	615 576 038 0	615 576 038 0
1	Multi-position guard	615 504 197 0	615 504 197 0	615 504 197 0
2	Rear flange	615 503 134 0	615 503 141 0	615 503 124 0
3	Front flange	615 502 066 0	615 502 067 0	615 502 062 0
4	Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
•	Hex. key 6mm			615 802 056 0
•	Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	



OPTIONAL ACCESSORIES

ITEM		PART NO.
5	Complete silencer kit	615 396 166 0
6	Clamp	615 263 024 0
7	Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
8	Vibration-damping side handle	615 576 066 0
9	Clippable silencer	615 396 957 0
10	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

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Grinders for depressed center wheels, cut-off wheels and flap wheels ø 127mm (5”)

1700 Watts (2.3 hp) - 12000 rpm

Quick wheel change

Multi-position guard



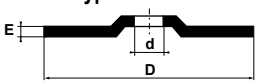
A



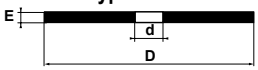
B



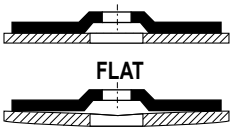
Type 27-42 wheel



Type 41 wheel



Depressed centre flap wheels



FLAT

CURVED

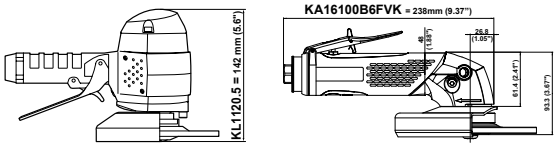
Caution: comply with the speeds recommended by component and abrasive manufacturers.

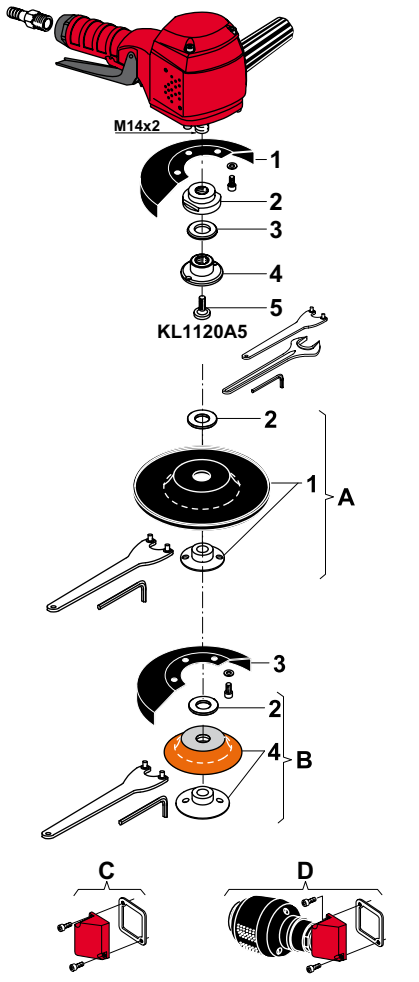
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
A	KA16120A5VK	615 170 438 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2
A	KA16120B5VK	615 170 454 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2
A	KA16120H5K	615 170 434 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120A5	615 170 437 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120B5	615 170 439 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120H5	615 170 444 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2

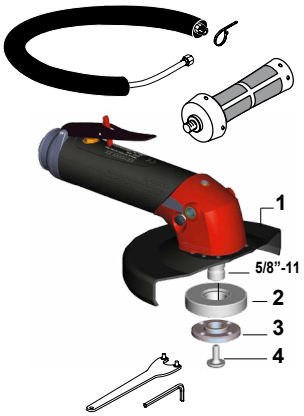
5/8”-11 UNC

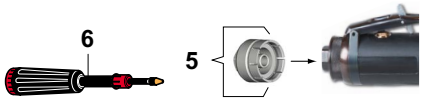
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Accessories









KL1120A5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM		KL1120A5 M14x2 / 5/8"-11
•	3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
1	Wheel guard	615 504 086 0
2	Rear flange	615 503 096 0
3	Washer for wheels thickness <2mm	615 642 052 0
4	Nut	615 606 032 0
5	Safety screw	615 614 033 0
•	Pin wrench. 35mm (1-3/8")	615 802 010 0
•	Flat wrench. 27mm (1-1/16")	615 801 077 0
•	Hex. key 6mm	615 802 056 0

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 127MM (5") ITEM		KL1120A M14x2
A	**Soft sanding kit for abrasive disc** (including item 1-2)	615 399 251 0
1	Ventilated backing pad with nut M14 (max. 12000 rpm)	615 990 127 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0
2	M14 Spacer	615 641 027 0

SANDING WITH SEMIRIGID DISC Ø 127MM (5") ITEM		KL1120A M14x2
3	Wheel guard	615 504 086 0
B	**Sanding kit for semirigid disc** (including item 4-2)	615 399 203 0
4	Backing pad with nut M14 (max. 12000 rpm)	615 990 129 0
2	M14 Spacer	615 641 027 0
•	Hex key 8mm (5/16")	615 802 061 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
C	Silencer kit	615 396 117 0
D	Silencer kit	615 399 462 0

KA16100B6FVK - ø 150mm (6")

ACCESSORIES INCLUDED

ITEM		KA16100B6FVK 5/8"-11
•	Complete silencer kit	615 396 166 0
•	Vibration-damping side handle	615 576 066 0
•	Clamp	615 263 024 0
1	Wheel guard	615 504 202 0
2	Auto-balancer	615 990 181 0
3	Front flange	615 502 067 0
4	Safety screw	615 614 076 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0
•	Hex. key 6.35mm (1/4")	615 802 057 0

OPTIONAL ACCESSORIES

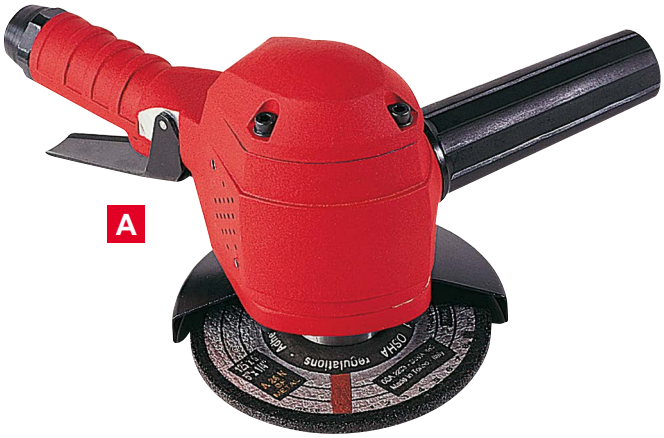
ITEM		KA16100B6FVK
5	Clippable silencer	615 396 957 0
6	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

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Grinders for depressed center wheels, cut-off wheels and flap wheels ø 127mm (5") - ø 150mm (6")

750 and 1600 Watts (1 and 2.15 hp) - 10000 and 12000 rpm

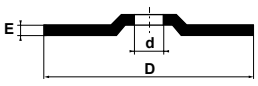
Fixed wheel guard



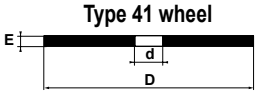




Type 27-42 wheel



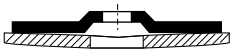
Type 41 wheel



Depressed centre flap wheels



FLAT



CURVED

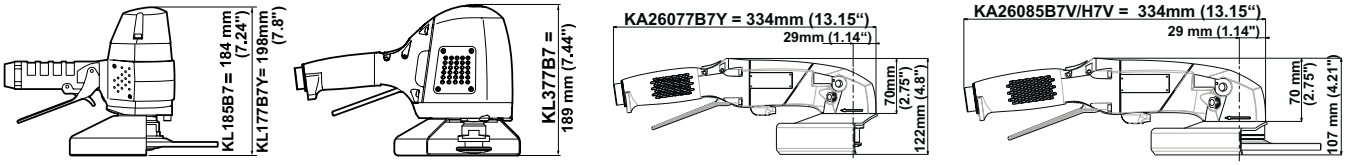
Caution: comply with the speeds recommended by component and abrasive manufacturers.

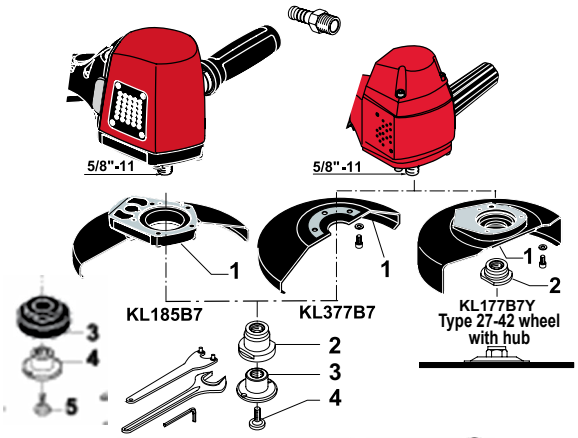
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
A	KL1120A5	615 170 013 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	750	1.0	2.3	5.0	16	34	16	34	3/8	10	3/8
B	KA16100B6FVK	615 170 470 0	10000	150x7.0x22.2	6x1/4x7/8	5/8-11	1600	2.15	1.9	4.2	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

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Accessories

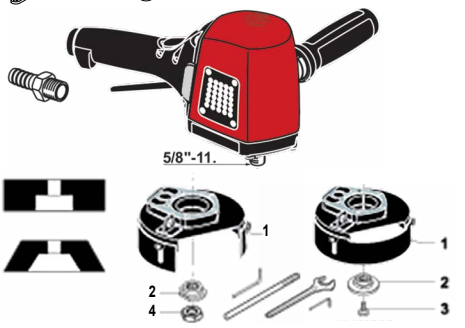




KL185B7 / KL377B7 / KL177B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM		KL185B7 Ø 180mm (7")	KL377B7 / V Ø 180mm (7")	KL177B7Y Ø 180mm (7")
•	1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0	
•	1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		615 704 016 0
1	Wheel guard	615 504 095 0	615 504 182 0	615 504 169 0
2	Rear flange for model B7	615 503 103 0	615 503 103 0	615 503 150 0
3	Auto-balancer for model B7V		615 503 146 0	
4	Nut	615 542 104 0	615 542 104 0	615 608 049 0
5	Safety screw	615 614 034 0	615 614 034 0	615 614 034 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
•	Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0
•	Hex. key 6mm	615 802 056 0	615 802 056 0	615 802 056 0



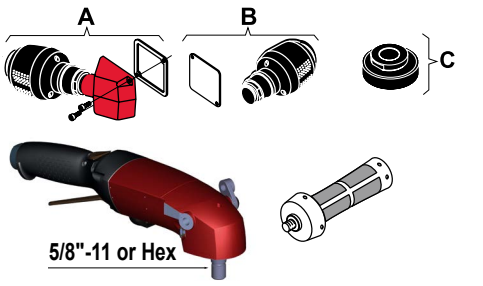
KL360B6C / KL360B6CY - Ø 150mm (6")

ACCESSORIES INCLUDED

ITEM		KL360B6C	KL360B6CY
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
1	Wheel guard	615 504 181 0	615 504 178 0
2	Rear flange	615 503 116 0	615 503 150 0
3	Safety screw	615 614 034 0	
4	Nut		615 608 049 0
•	Lever		615 595 202 0
•	Flat wrench. 27mm (11/16")	615 801 077 0	
•	Hex. key	615 802 056 0	615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM		KL185B7	KL377B7	KL177B7Y
A	Silencer	615 399 462 0		615 399 462 0
B	Silencer		615 399 463 0	
C	Auto-Balancer	615 503 146 0		



KA26085B7V / KA26085H7V / KA26077B7Y - Ø 180mm (7")

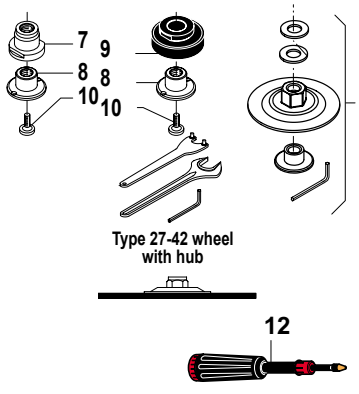
ACCESSORIES INCLUDED

ITEM		KA26085B7V	KA26085H7V	KA26077B7Y
•	Vibration damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
•	Rotating exhaust kit	615 397 743 5	615 397 743 5	615 397 743 5
•	Rotating handle support kit	615 397 741 5	615 397 741 5	615 397 741 5
1	Wheel guard kit	615 504 211 5	615 504 211 5	615 504 213 5
2	Auto-balancer	615 990 181 0	615 990 194 0	
3	Rear flange		615 503 164 0	615 503 153 0
4	Front flange	615 502 067 0	615 502 085 0	
5	Nut 5/8"			615 608 049 0
6	Safety screw	615 614 076 0		615 614 034 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
•	Hex key	615 802 056 0	615 802 056 0	615 802 056 0



OPTIONAL ACCESSORIES

ITEM		KL177B7Y KA26077B7Y
7	Rear flange	615 503 103 0
8	Nut	615 542 104 0
9	Rear flange balancer	615 503 146 0
10	Safety screw	615 614 034 0
11	Wheel adaptor	C087920
•	Pin wrench	615 802 010 0
•	Flat wrench	615 801 077 0
•	Hex key	615 802 056 0
12	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



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Grinders for depressed center wheels, cut-off wheels and flap wheels ø 180mm (7")

1200 to 3000 Watts (1.61 to 4.02 hp) - 6000 to 8500 rpm


A


B

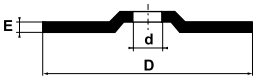

C


D

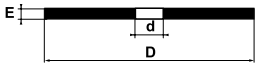

E


F

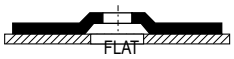
Type 27-42 wheel

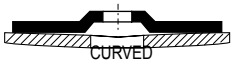


Type 41 wheel



Depressed centre flap wheels





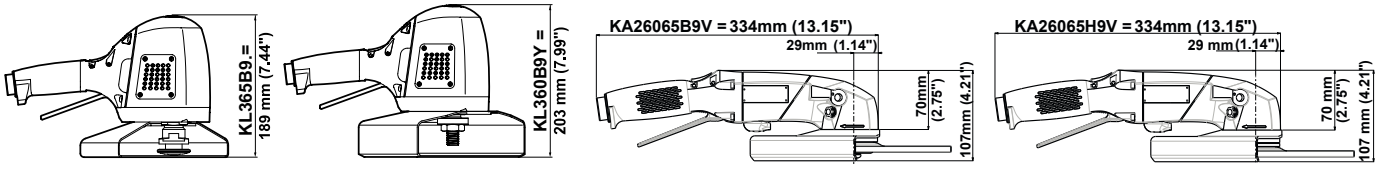
Caution: comply with the speeds recommended by component and abrasive manufacturers.

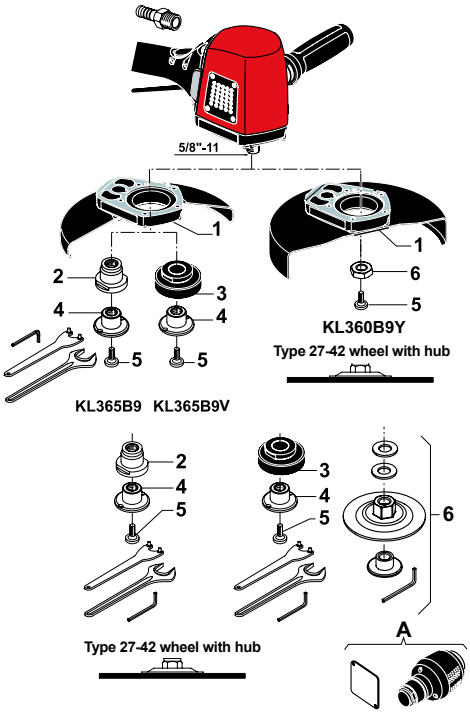
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
VERTICAL GRINDERS																	
A	KL185B7	615 170 012 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	16	34	27	57	1/2	13	1/2
B	KL377B7	615 170 341 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.2	9.2	19	40	46	97	1/2	15	5/8
For USA Market only (to ANSI B186.1)																	
C	KL177B7Y	615 170 182 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	8	17	25	53	1/2	15	5/8
LOW VIBRATION - VERTICAL GRINDERS																	
B	KL377B7V	615 170 472 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.3	9.4	19	40	46	97	1/2	15	5/8
VERTICAL GRINDERS for cup wheels																	
D	KL360B6C	615 170 337 0	6000	150	6	5/8-11	2400	3.22	4.2	9.2	9	19	39	82	1/2	15	5/8
For USA Market only (to ANSI B186.1)																	
D	KL360B6CY	615 170 351 0	6000	150	6	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8
ANGLE GRINDERS																	
E	KA26085B7V	615 170 476 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8
E	KA26085H7V	615 170 489 0	8500	180x9.5x22.2	7x3/8x7/8	HEX.	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8
For USA Market only (to ANSI B186.1)																	
F	KA26077B7Y	615 170 478 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	6.6	16	33	32	69	1/2	15	5/8

5/8"-11 UNC

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Accessories





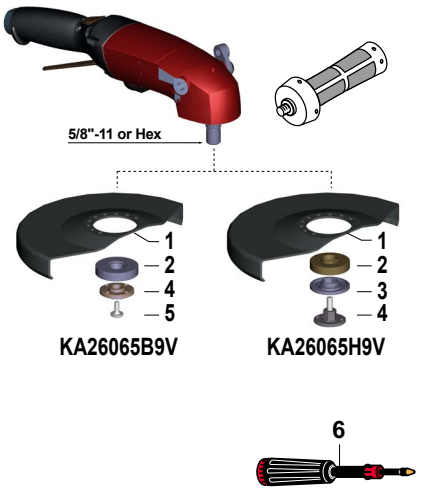
KL365B9 / KL365B9V / KL360B9Y - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM		KL365B9 KL365B9V	KL360B9Y
•	1/2" air hose nipple for 16 mm (5/8") ID hose	615 704 014 0	615 704 014 0
1	Wheel guard	615 504 183 0	615 504 180 0
2	Rear flange for model B9	615 503 103 0	
3	Auto-balancer for model B9V	615 503 146 0	
4	Nut	615 542 104 0	
5	Safety screw	615 614 034 0	615 614 034 0
6	Nut		615 608 049 0
•	Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	
•	Hex. Key 6mm	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM		KL365B9	KL360B9Y
2	Rear flange		615 503 103 0
3	Auto-balancer		615 503 146 0
4	Nut		615 542 104 0
5	Safety screw		615 614 034 0
6	Wheel adaptor		C087920
•	Pin wrench, 35mm (1-3/8")		615 802 010 0
•	Flat wrench, 27mm (1-1/16")		615 801 077 0
•	Hex. Key 6mm		615 802 056 0
A	Silencer kit	615 399 463 0	615 399 463 0



KA26065B9V / KA26065H9V - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM		KL365B9	KL360B9Y
•	Vibration damping side handle	615 576 066 0	615 576 066 0
•	1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
•	Rotating exhaust kit	615 397 743 5	615 397 743 5
•	Rotating handle support kit	615 397 741 5	615 397 741 5
1	Wheel guard kit	615 504 212 5	615 504 212 5
2	Auto-balancer	615 990 181 0	615 990 194 0
3	Rear flange		615 503 164 0
4	Front flange	615 502 067 0	615 502 085 0
5	Safety screw	615 614 076 0	
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex key	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
6	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

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Grinders for depressed center wheels

ø 230mm (9")

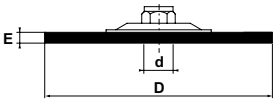
2100 and 2900 Watts (2.82 and 3.89 hp) - 6000 and 6500 rpm



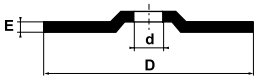




Type 27-42 wheel with hub



Type 27-42 wheel



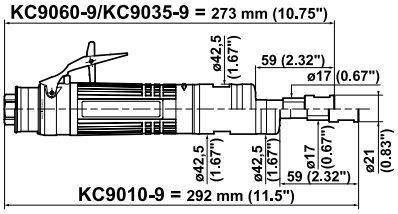
Type 41 wheel

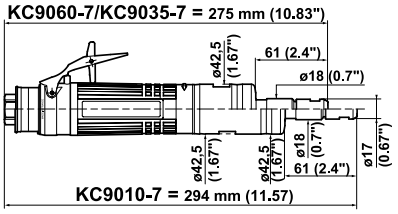
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
VERTICAL GRINDERS																	
A	KL365B9	615 170 338 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	13	27	44	93	1/2	15	5/8
For USA Market only (to ANSI B186.1)																	
B	KL360B9Y	615 170 350 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8
LOW VIBRATION - VERTICAL GRINDERS																	
A	KL365B9V	615 170 474 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.5	9.9	13	27	44	93	1/2	15	5/8
ANGLE GRINDERS																	
C	KA26065B9V	615 170 477 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8
C	KA26065H9V	615 170 490 0	6500	230x6.4x22.2	9x1/4x7/8	HEX. 5/8"-11 UNC	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8

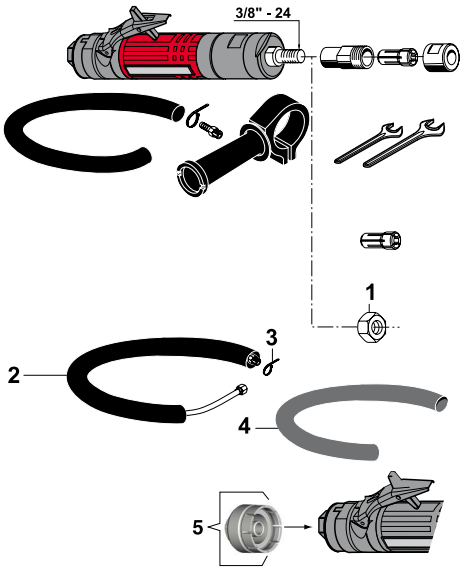
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Accessories





KC9060-9 / KC9035-9 / KC9010-9



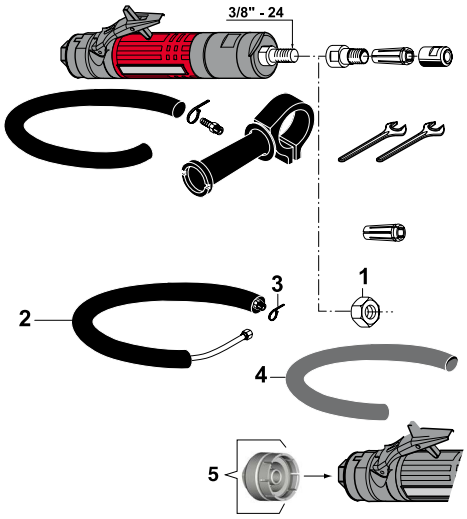
ACCESSORIES INCLUDED

	PART NO.
• Series 200 resilient collet, ø 5.55 to 6.35mm (1/4")	615 526 063 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
•	Series 200 resilient collet, ø 2.4 to 3.2mm (1/8")	615 526 061 0
•	Series 200 resilient collet, ø 5.2 to 6mm	615 526 062 0
•	Series 200 resilient collet, ø 7.2 to 8mm (5/16")	615 526 064 0
•	Series 200 resilient collet, ø 8.7 to 9.5mm (3/8")	615 526 065 0
1	Nut 3/8" - 24	615 608 044 0
2	Complete silencer kit	615 396 166 0
3	Clamp	615 873 115 0
4	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
5	Clippable silencer	615 396 655 0

KC9060-7 / KC9035-7 / KC9010-7



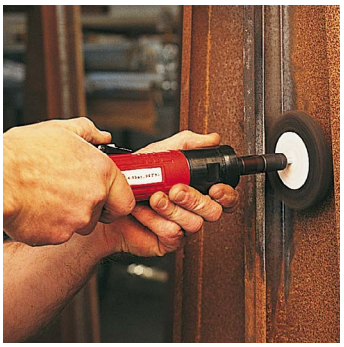
ACCESSORIES INCLUDED

	PART NO.
• CNOMO collet ø 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
•	CNOMO collet ø 3mm	615 526 048 0
•	CNOMO collet ø 6.35mm (1/4")	615 526 050 0
•	CNOMO collet ø 8mm (5/16")	615 526 051 0
1	Nut 3/8" - 24	615 608 044 0
2	Complete silencer kit	615 396 166 0
3	Clamp	615 873 115 0
4	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
5	Clippable silencer	615 396 655 0





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Sanders for expandable wheels, flap wheels, brushes

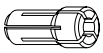
900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with series 200 Erickson collet, Ø 5.55 to 6.35mm (1/4")





Series 200 Erickson collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX. POWER				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KC9060-9	615 170 166 0	5500	9.5	3/8	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8
A	KC9035-9	615 170 167 0	3500	9.5	3/8	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8
B	KC9010-9	615 170 168 0	1000	9.5	3/8	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8

Sanders for expandable wheels, flap wheels, brushes...

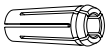
900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with CNOMO collet, Ø 6mm





CNOMO type collet

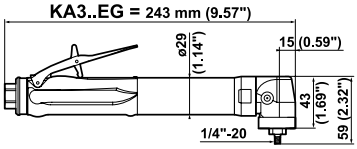


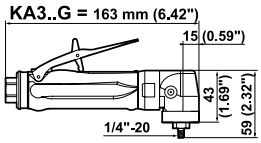
Caution: comply with the speeds recommended by component and abrasive manufacturers.

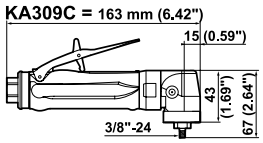
PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX. POWER				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KC9060-7	615 170 122 0	5500	8	5/16	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8
A	KC9035-7	615 170 121 0	3500	8	5/16	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8
B	KC9010-7	615 170 120 0	1000	8	5/16	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8

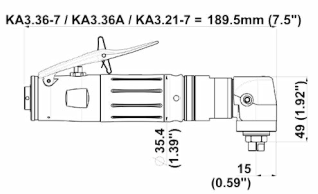
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Accessories

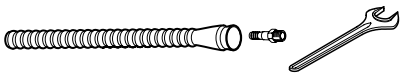


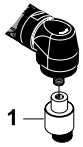


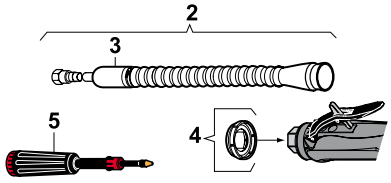




KA3..EG / KA3..G / KA309C







ACCESSORIES INCLUDED

		PART NO.
•	Exhaust hose L = 0.8m (31")	615 875 106 0
•	1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
•	Flat wrench, 11mm (7/16")	615 801 003 0

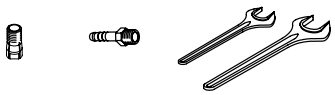
OPTIONAL ACCESSORIES

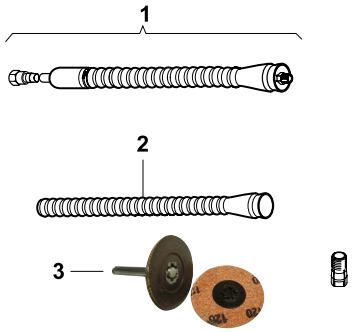
ITEM		KA309C 3/8"-24
1	Excentric sanding head for 1" pad	615 396 251 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
2	Complete silencer kit	615 396 101 0
3	Silencer	615 574 028 0
4	Clippable silencer	615 396 124 0
5	Grease gun (capacity 24g - 0.8oz)	615 990 149 0
•	Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

KA3.36A / KA3.36-7 / KA3.21-7





See page 207

ACCESSORIES INCLUDED

		KA3.36A	KA3.36-7/KA3.21-7
•	Collet ø 6mm	-	615 526 079 0
•	1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0	615 705 009 0
•	Flat wrench, 10mm (3/8")	-	615 801 002 0
•	Flat wrench, 14mm	-	615 801 005 0

OPTIONAL ACCESSORIES

ITEM		KA3.36A	KA3.36-7/KA3.21-7
1	Complete silencer kit	615 399 423 0	615 399 423 0
2	Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0
3	Backing pad ø 50mm (31/32")		615 804 098 0
•	Collet ø 2mm		615 526 066 0
•	Collet ø 2.5mm		615 526 068 0
•	Collet ø 3mm		615 526 069 0
•	Collet ø 3.5mm		615 526 070 0
•	Collet ø 4mm (5/32")		615 526 071 0
•	Collet ø 4.5mm		615 526 073 0
•	Collet ø 5mm		615 526 075 0
•	Collet ø 5.5mm		615 526 077 0
•	Collet ø 6mm		615 526 079 0
•	Collet ø 6.5mm (1/4")		615 526 081 0
•	Collet ø 7mm		615 526 083 0
•	Collet ø 7.5mm		615 526 084 0
•	Collet ø 8mm (5/16")		615 526 088 0



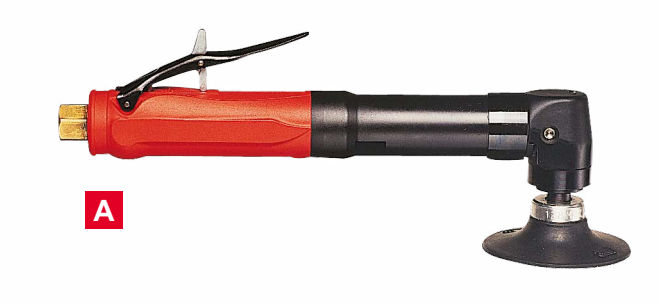


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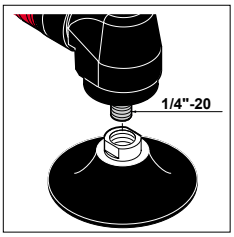
Sanders for abrasive discs

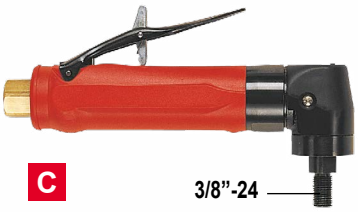
220 to 375 Watts (0.3 to 0.5 hp) - 2100 to 20000 rpm

Supplied with 1/4", 3/8" or M14 threaded spindle only













CNOMO collet, Ø 6mm

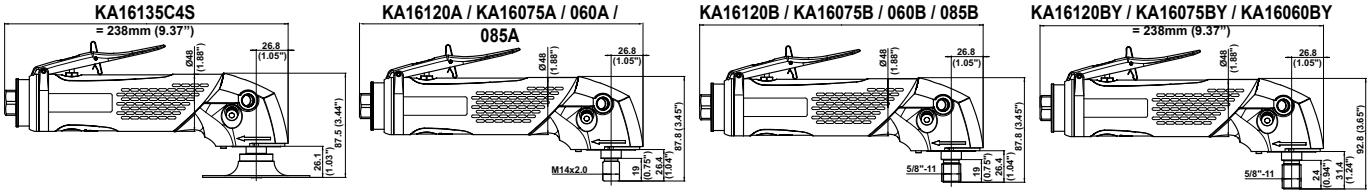
Caution: comply with the speeds recommended by component and abrasive manufacturers.

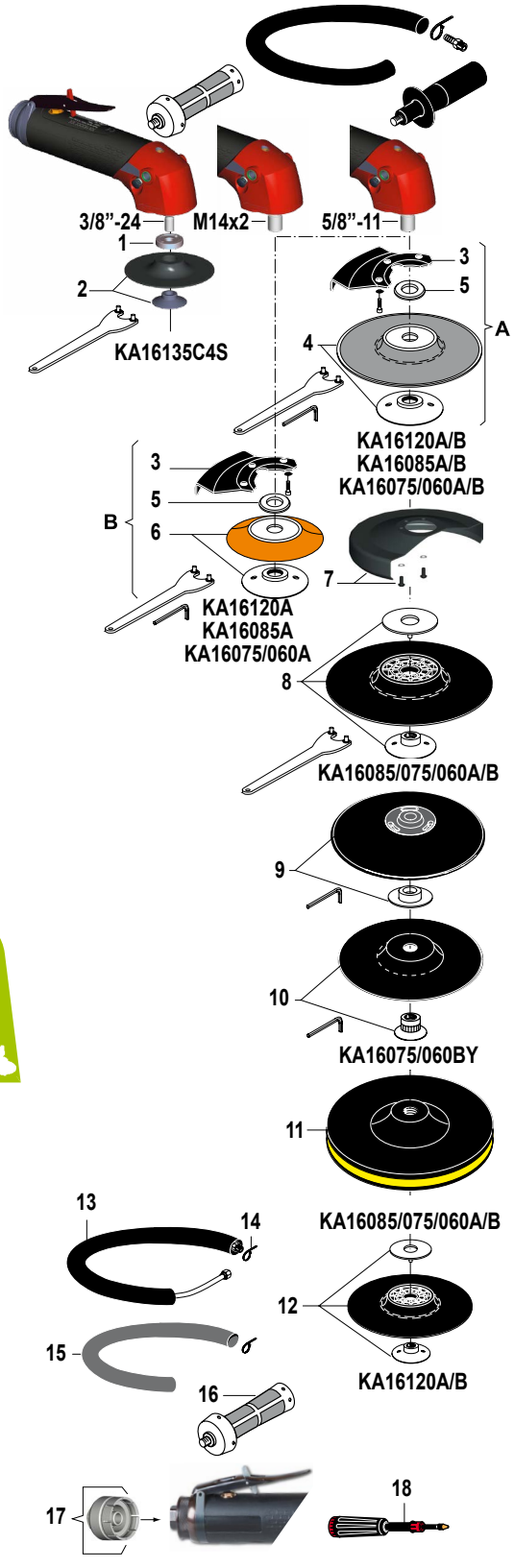
PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE OR COLLET MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX SPEED		AIR INLET THREAD	HOSE INT. Ø	
			rpm	ø mm	ø in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA320EG	615 170 048 0	20000	76	3	1/4-20	375	0.5	0.67	1.47	6.5	13.5	10	21	1/4	8	5/16
A	KA312EG	615 170 040 0	12000	76	3	1/4-20	375	0.5	0.67	1.47	3.0	6.5	9	19	1/4	8	5/16
B	KA320G	615 170 044 0	20000	76	3	1/4-20	375	0.5	0.50	1.10	6.5	13.5	10	21	1/4	8	5/16
B	KA318G	615 170 310 0	18000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA312G	615 170 038 0	12000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA309G	615 170 204 0	9000	76	3	1/4-20	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16
C	KA309C	615 170 203 0	9000	76	3	3/8-24	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16
LOW SPEED SANDERS																	
D	KA3.36A	615 170 525 0	3600	-		M14x2	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4
E	KA3.36-7	615 170 523 0	3600	cap. 8mm (5/16")		-	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4
E	KA3.21-7	615 170 524 0	2100	cap. 8mm (5/16")		-	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4

1/4"-20 UNC - 3/8"-24 UNF

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Accessories





KA16135C4S / KA16120/075/060A-B-BY / KA16085A-B

ACCESSORIES INCLUDED

ITEM		KA16135C4S 3/8"-24	KA16120	KA16085 KA16075/060
•	Exhaust hose L= 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
•	Clamp	615 263 024 0	615 263 024 0	615 263 024 0
•	3/8" air hose nipple for 13mm ID hose	615 704 027 0	615 704 027 0	615 704 027 0
•	Side handle			615 576 038 0
•	Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
•	Vibration-damping side handle	615 576 066 0	615 576 066 0	
1	Flange	615 606 515 0		
2	Backing with nut	615 990 167 0		
•	Pin wrench, 20-3mm	615 802 008 0		

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 127MM (5") ITEM		KA16120A KA16085/075/060A M14x2	KA16120B KA16085/075/060B 5/8"-11
A	**Sanding kit for abrasive disc (including items 4-5)**	615 396 072 0	615 396 072 0
3	Finger guard	615 504 145 0	615 504 145 0
4	Ventilated backing pad with nut M14 & 5/8" (max. 12.000 rpm)	615 990 127 0	615 990 127 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0	615 802 061 0
5	M14 Spacer	615 641 027 0	
5	5/8" Spacer		615 642 050 0

SANDING WITH SEMIRIGID DISC Ø 127MM (5") ITEM		KA16120A KA16085/075/060A M14X2
B	**Sanding kit for semirigid disc (including items 5-6)**	615 396 075 0
3	Finger guard	615 504 145 0
6	Backing pad with nut M14 (max. 12.000 rpm)	615 990 129 0*
•	Pin wrench, 35mm (1-3/8")	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0
5	M14 Spacer	615 641 027 0

SANDING ITEM		KA16085/075/060A M14x2	KA16085/075/060B 5/8"-11	KA16075/060BY 5/8"-11
7	Sanding guardø 180mm (7")	615 504 205 0*	615 504 205 0*	615 504 205 0*
8	Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0*	615 990 133 0*	
8	Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8.500 rpm)	615 990 134 0*	615 990 134 0*	
•	Pin wrench 35mm (1-3/8")	615 802 010 0	615 802 010 0	
9	Spiracool pad whit nut ø 180mm (7") (max.8500 rpm)			S091836
10	Complete kit ø 180mm (7") (max.7000 rpm) for KA16060BY			K129587
•	Hex key 8mm (5/16")			615 802 061 0
11	Rigid velcro-backed backing pad ø 180mm (7") (max.8700 rpm)		615 990 146 0	
11	Rigid velcro-backed backing pad ø 150mm (6") (max.10000 rpm)		615 990 138 0	

* Spare part: Nut 606.22 for M14 model and 608.29 for 5/8"-11

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
12	Semi-hard backing pad with nut M14 & 5/8" - ø 127mm (5") (max. 12.000 rpm)	615 804 074 0
13	Complete silencer kit	615 396 166 0
14	Clamp	615 263 024 0
15	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
16	Vibration-damping side handle	615 576 066 0
17	Clippable silencer	615 396 957 0
18	Grease gun includes 24g (0.8 oz)	615 990 149 0
•	Grease for bevel gear (1 kg -2.2 lb)	615 990 148 0

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Sanders for abrasive discs

Ø 100mm (4") - Ø 127mm (5") - Ø 150mm (6") Ø 180mm (7")

1350 to 1700 Watts (1.83 to 2.3 hp) - 6000 to 13500 rpm

Supplied with M14 or 5/8" threaded spindle only



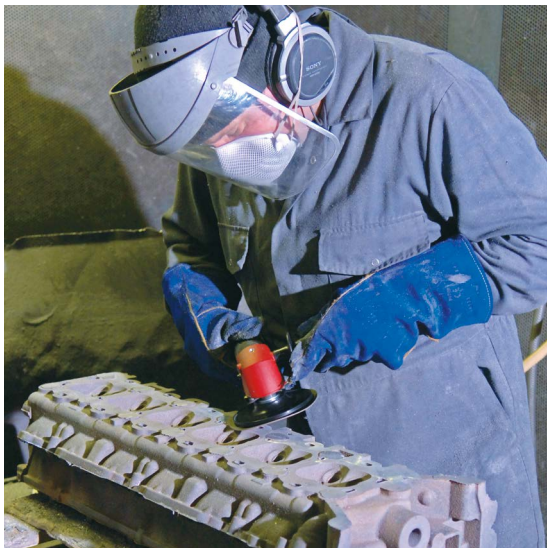
A



B



C D





C D

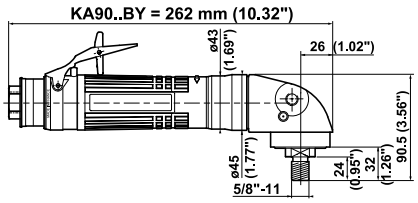
Caution: comply with the speeds recommended by component and abrasive manufacturers.

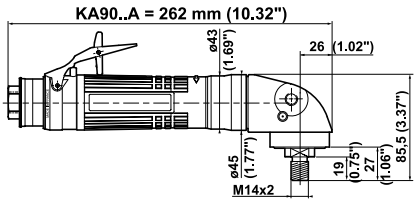
PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX. SPEED		AIR INLET THREAD	HOSE INT. Ø	
			rpm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA16135C4S	615 170 446 0	13500	3/8-24	1 700	2.28	1.48	3.3	25	53	35	74	3/8	13	1/2
B	KA16120A	615 170 435 0	12000	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
B	KA16120B	615 170 445 0	12000	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085A	615 170 468 0	8500	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085B	615 170 469 0	8500	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16075A	615 170 448 0	7500	M14x2	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16075B	615 170 452 0	7500	5/8-11	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16060A	615 170 449 0	6000	M14x2	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2
C/D	KA16060B	615 170 453 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2
For USA Market only (to ANSI B186.1)															
B	KA16120BY	615 170 447 0	12000	5/8-11	1 700	2.28	1.41	3.1	20	42	32	68	3/8	13	1/2
D	KA16075BY	615 170 450 0	7500	5/8-11	1 500	2.01	1.41	3.1	15	32	27	57	3/8	13	1/2
D	KA16060BY	615 170 451 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2

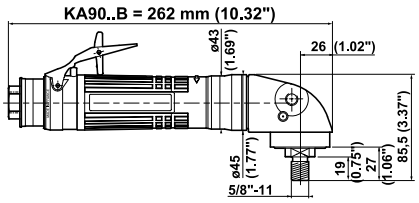
3/8"-24 UNF - 5/8"-11 UNC

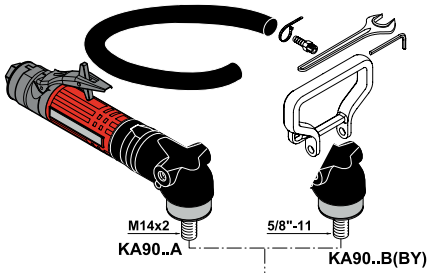
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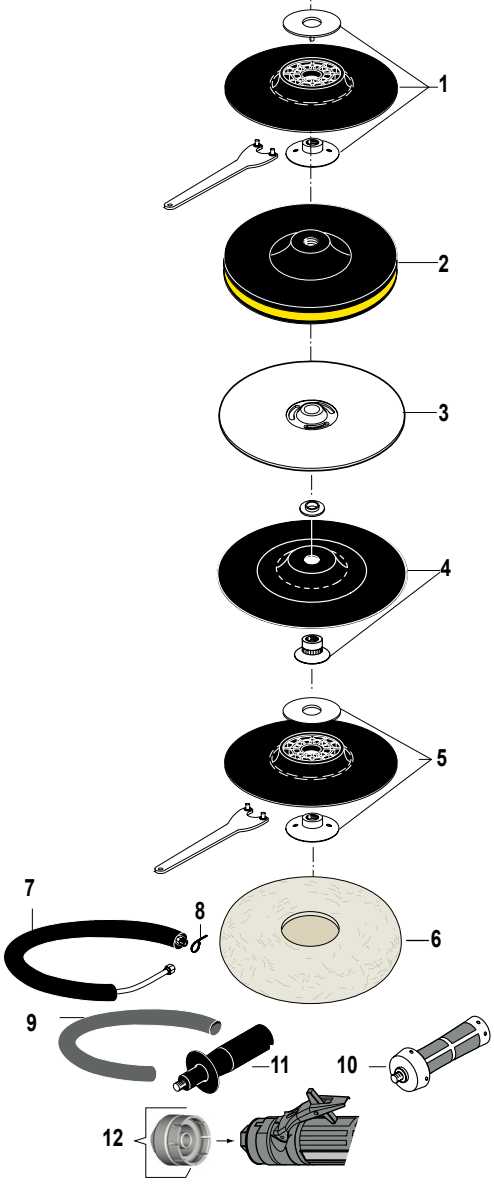
Accessories











KA90..A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Support handle	615 576 069 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Hex key 8mm (5/16")	615 802 061 0

OPTIONAL ACCESSORIES

SANDING ITEM		KA90..A M14x2	KA90..B 5/8"-11	KA9030/20BY 5/8"-11
1	Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	615 990 133 0	
1	Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 134 0	615 990 134 0	
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
2	Rigid velcro-backed backing pad ø 180mm (7") (max. 8700 rpm)		615 990 146 0	
2	Rigid velcro-backed backing pad ø 150mm (6") (max. 10000 rpm)		615 990 138 0	
3	Spiracool pad with nut ø 180mm (7") (max.8500 rpm)			S091836
3	Spiracool pad with nut ø 230mm (9") (max 6500 rpm)			S091839
4	Complete Kit ø 180mm (7") (max. 7000 rpm)			K129587
•	Hex. Key 8mm (5/16")			615 802 061 0

POLISHING ITEM		KA90..A KA90..B
5	Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0
•	Pin wrench 35mm (1-3/8")	615 802 010 0
6	Sheepskin ø 180mm (7") (max. 2100 rpm)	615 845 999 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
7	Complete silencer kit	615 396 166 0
8	Clamp	615 873 115 0
9	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
10	Vibration-damping side handle	615 576 066 0
11	Side handle	615 576 038 0
12	Clippable silencer	615 396 655 0



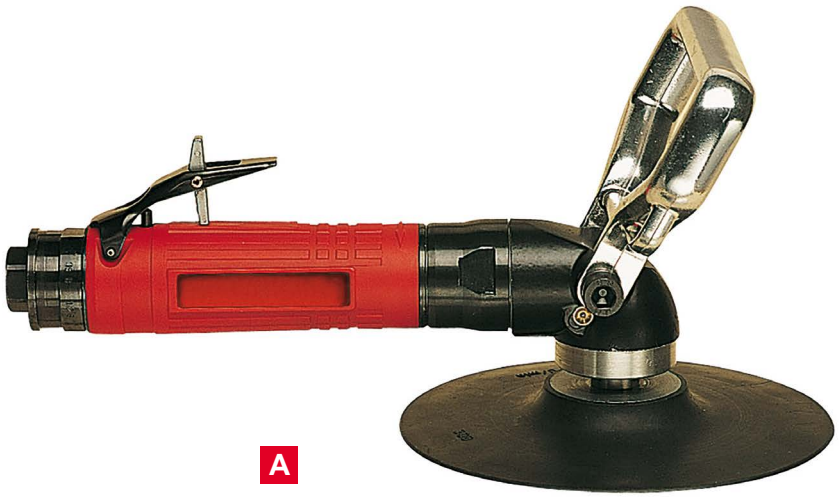
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Sanders for abrasive discs polishing

Ø 150mm (6”) - Ø 180mm (7”) - Ø 230mm (9”)

900 Watts (1.21 hp) - 2000 and 3000 rpm

Supplied with M14 or 5/8” threaded spindle only



A

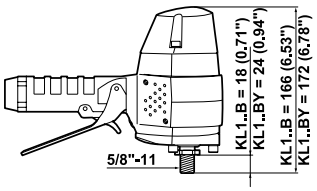
Caution: comply with the speeds recommended by component and abrasive manufacturers.

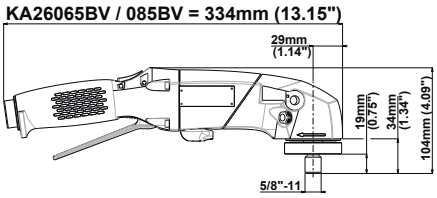
PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
									AT FREE SPEED		AT MAX OUTPUT				
			rpm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	**KA9030A**	**615 170 098 0**	3000	M14x2	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	**KA9030B**	**615 170 099 0**	3000	5/8-11	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	**KA9020A**	**615 170 096 0**	2000	M14x2	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8
A	**KA9020B**	**615 170 097 0**	2000	5/8-11	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8
For USA Market only (to ANSI B186.1)															
A	**KA9030BY**	**615 170 309 0**	3000	5/8-11	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8

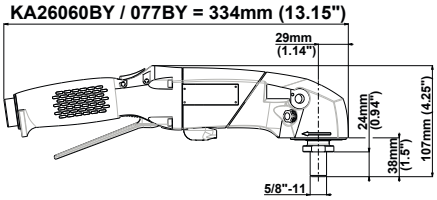
5/8”-11 UNC

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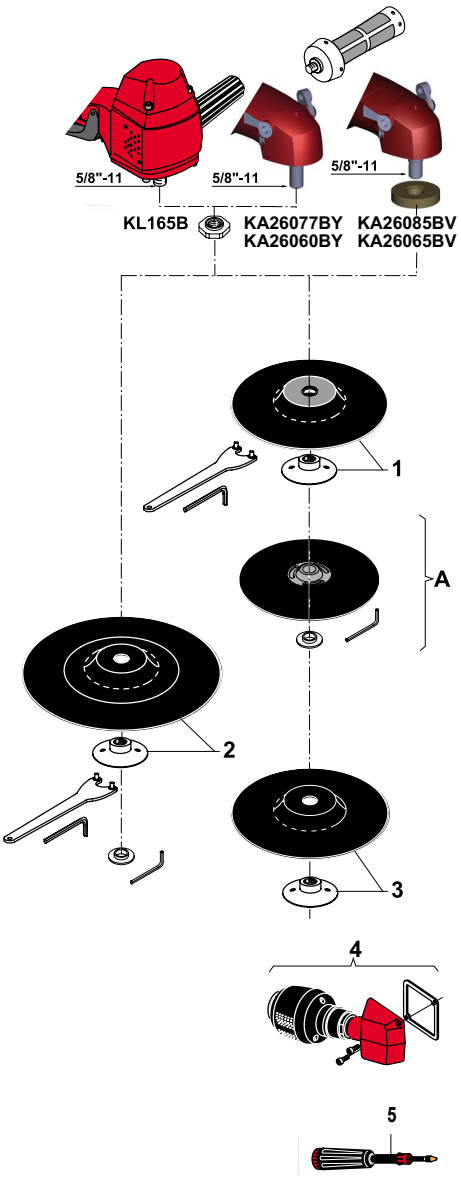
Accessories







KL165B / KA26085BV / KA26065BV / KA26077BY / KA26060BY



ACCESSORIES INCLUDED

	KL165B	KA26085BV KA26065BV	KA26077BY KA26060BY
• Rear flange	615 503 107 0		615 503 107 0
• Auto-balancer		615 990 195 0	
• Rotating handle support kit		615 397 741 5	615 397 741 5
• Rotating exhaust kit		615 397 743 5	615 397 743 5
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		
• 1/2" air hose nipple for 15mm (5/8") ID hose		615 704 014 0	615 704 014 0
• Vibration-damping side handle		615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 180MM (7") ITEM	KL165B	KA26085BV KA26077BY
• Rear flange for KA26085BV		615 503 107 0
1 Soft Backing pad with nut 5/8", ø 180mm (7") - (max. 8500 rpm)	615 990 133 0*	615 990 133 0*
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0	

*Spare Part: Nut **615 608 047 0***

SANDING WITH SPIRACOOL PAD Ø 180MM (7") ITEM	KA26077BY
A **Spiracool pad with nut 5/8", ø 180mm (7")** - (Max. 8500 rpm)	S091836
• Pin wrench 35mm (1-3/8")	615 802 010 0

SANDING WITH STANDARD ABRASIVE DISC Ø 230MM (9") ITEM	KA26065BV KA26060BY
• Rear flange for KA26065BV	615 503 107 0
2 Soft Backing pad with nut 5/8", ø 230mm (9") - (max. 6500 rpm)	615 990 141 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0

** Spare Part: Nut **608.29***

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA26..
3 Rigid backing pad with nut 5/8", ø 180mm (7") - (max. 8500 rpm)	615 990 134 0	
4 Silencer kit	615 399 462 0	
5 Grease gun includes 24g (0.8 oz)		615 990 149 0
• Grease for bevel gear (1kg - 2.2 lb))		615 990 148 0





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Sanders for abrasive discs

Ø 180mm (7”) - Ø 230mm (9”)

1200 and 2100 Watts (1.61 and 2.82 hp) - 6000 to 8500 rpm

Supplied with 5/8” threaded spindle only







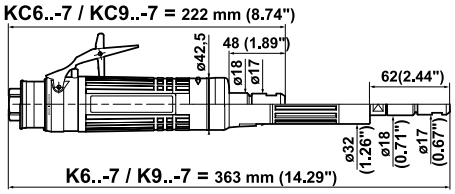
Caution: comply with the speeds recommended by component and abrasive manufacturers.

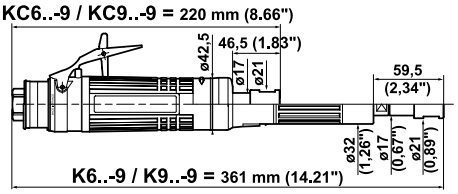
PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX SPEED		AIR INLET THREAD	HOSE INT. Ø	
			rpm	ø mm	ø in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
VERTICAL SANDER																	
A	KL165B	615 170 011 0	6500	180	7	5/8-11	1200	1.61	2.3	5.1	6	13	25	53	1/2	13	1/2
ANGLE SANDERS																	
B	KA26085BV	615 170 479 0	8500	180	7	5/8-11	2100	2.82	2.3	5.1	17	36	36	77	1/2	15	5/8
B	KA26065BV	615 170 480 0	6500	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	21	44	38	80	1/2	15	5/8
ANGLE SANDERS																	
For USA Market only (to ANSI B186.1)																	
C	KA26077BY	615 170 481 0	7700	180	7	5/8-11	2100	2.82	2.3	5.1	16	33	32	69	1/2	15	5/8
C	KA26060BY	615 170 482 0	6000	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	18	38	37	77	1/2	15	5/8

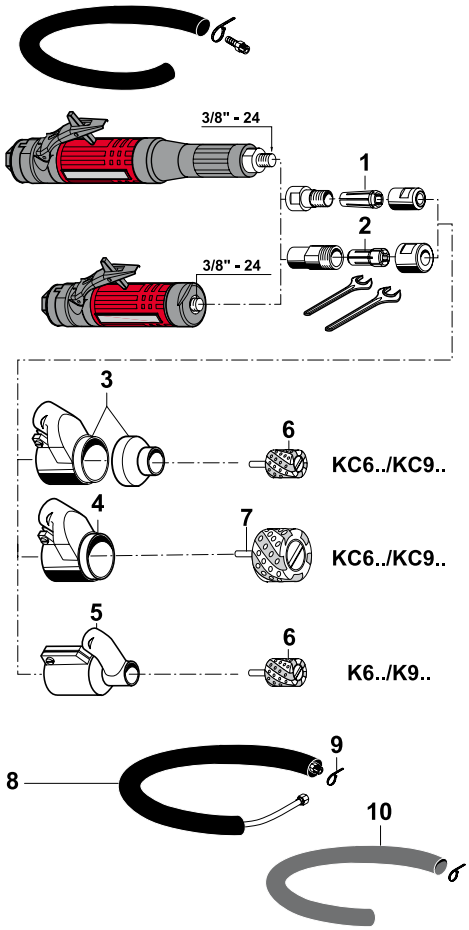
5/8”-11 UNC

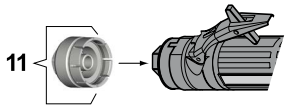
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Accessories









K6..-. / K9..-. / KC6..-. / KC9..-.

ACCESSORIES INCLUDED

ITEM		COLLET CNOMO	COLLET SERIES 200
1	CNOMO collet ø 6mm	615 526 049 0	
2	Series 200 resilient collet, ø 5.55 to 6.35mm (1/4")		615 526 063 0
•	Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
•	Clamp	615 873 415 0	615 873 415 0
•	3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	615 704 017 0
•	Flat wrench 14mm	615 801 005 0	615 801 005 0
•	Flat wrench 19mm (3/4")		615 801 076 0

OPTIONAL ACCESSORIES

ITEM		K6../K9..-.	KC6../KC9..
3	Suction cap		615 396 013 0
4	Suction cap		615 396 023 0
5	Suction cap	615 396 014 0	
6	Diamond cylinder ø 27mm (1.06"), shank ø 6mm (1/4") (20000 rpm max)	615 860 003 0	615 860 003 0
7	Diamond cylinder ø 52mm (2.05"), shank ø 6mm (1/4") (15000 rpm max)		615 860 004 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
8	Complete silencer kit	615 396 166 0
9	Clamp	615 873 115 0
10	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
11	Clippable silencer	615 396 655 0



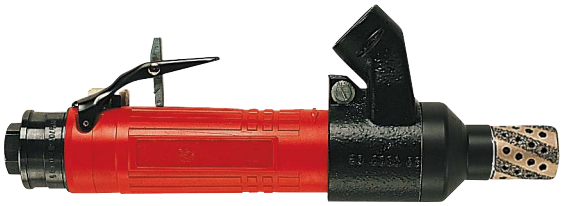
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Dust extraction systems for straight grinders

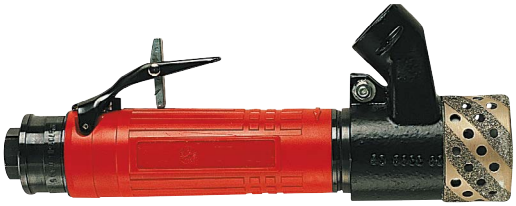
600 and 900 Watts (0.8 and 1.21 hp) - 12000 to 28000 rpm



A



B



B



615 396 014 0
Vacuum hose,
ID 25mm
(1")



615 396 013 0
Vacuum hose,
ID 32mm
(1-1/4")



615 396 023 0
Vacuum hose,
ID 32mm
(1-1/4")

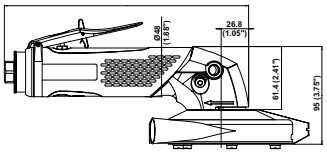
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER			SUCTION CAP ASSEMBLY	FREE SPEED	POWER		WEIGHT		AIR INLET THREAD
		CNOMO COLLET (-7)	SERIES 200 COLLET (-9)			rpm	W	hp	kg	lb.	in.
A	K628-.	615 170 107 0	615 170 150 0	+	615 396 014 0	28000	600	0.80	1.3	2.9	3/8
A	K624-.	615 170 106 0	615 170 151 0	+	615 396 014 0	24000	600	0.80	1.3	2.9	3/8
A	K922-.	615 170 119 0	615 170 152 0	+	615 396 014 0	22000	900	1.21	1.4	3.1	3/8
A	K619-.	615 170 105 0	615 170 153 0	+	615 396 014 0	19000	600	0.80	1.3	2.9	3/8
A	K918-.	615 170 117 0	615 170 154 0	+	615 396 014 0	18000	900	1.21	1.4	3.1	3/8
A	K615-.	615 170 104 0	615 170 155 0	+	615 396 014 0	15000	600	0.80	1.3	2.9	3/8
A	K915-.	615 170 114 0	615 170 156 0	+	615 396 014 0	15000	900	1.21	1.4	3.1	3/8
A	K912-.	615 170 110 0	615 170 157 0	+	615 396 014 0	12000	900	1.21	1.4	3.1	3/8
B	KC628-.	615 170 126 0	615 170 158 0	+	615 396 013 0 or 615 396 023 0	28000	600	0.80	0.9	2.0	3/8
B	KC624-.	615 170 125 0	615 170 159 0	+	615 396 013 0 or 615 396 023 0	24000	600	0.80	0.9	2.0	3/8
B	KC922-.	615 170 130 0	615 170 160 0	+	615 396 013 0 or 615 396 023 0	22000	900	1.21	1.0	2.2	3/8
B	KC619-.	615 170 124 0	615 170 161 0	+	615 396 013 0 or 615 396 023 0	19000	600	0.80	0.9	2.0	3/8
B	KC918-.	615 170 129 0	615 170 162 0	+	615 396 013 0 or 615 396 023 0	18000	900	1.21	1.0	2.2	3/8
B	KC615-.	615 170 123 0	615 170 163 0	+	615 396 013 0 or 615 396 023 0	15000	600	0.80	0.9	2.0	3/8
B	KC915-.	615 170 128 0	615 170 164 0	+	615 396 013 0 or 615 396 023 0	15000	900	1.21	1.0	2.2	3/8
B	KC912-.	615 170 127 0	615 170 165 0	+	615 396 013 0 or 615 396 023 0	12000	900	1.21	1.0	2.2	3/8

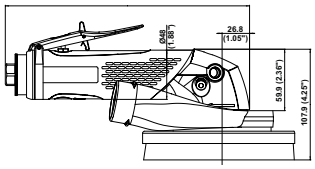
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Accessories

KA16... = 238mm (9.37")

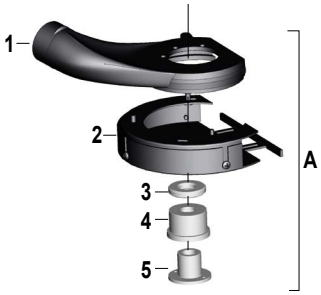


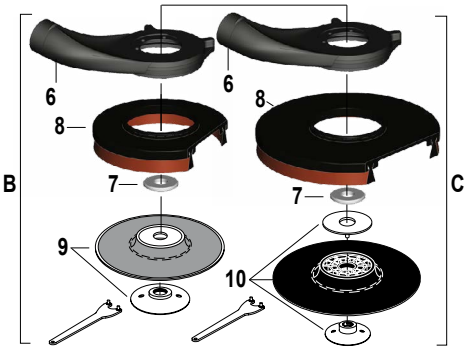
KA16... = 238mm (9.37")

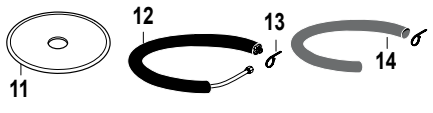


KA16120. / KA16085. / KA16075. / KA16060.











ACCESSORIES INCLUDED

		PART NO.
•	Exhaust hose L = 1.5m (60")	615 875 113 0
•	Clamp	615 263 024 0
•	3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0
•	Side handle	615 576 038 0
•	Flat wrench, 17mm (1-1/16")	615 801 032 0

OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING		KA16120./ KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")
A	**Dust extraction Kit for Diamond disc ø 127mm (5")**	615 397 830 0
1	Manifold cutting with screws	615 504 217 0
2	Goble cover plate complete	615 504 218 0
3	Spacer 6mm - Hole 14mm	615 643 092 0
3	Spacer 6mm - Hole 16mm	615 643 091 0
4	Spacer for M14 spindle	615 643 089 0
4	Spacer for 5/8" spindle	615 643 090 0
5	Flange nut M14	615 606 046 0
5	Flange nut 5/8"	615 606 045 0
•	Pin key	615 802 067 0

DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING		KA16120./ KA16085. KA16075. / KA16060	KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")	Ø 180mm (7")
B	**Dust extraction Kit for disc ø 127mm (5")**	615 397 828 0	
C	**Dust extraction Kit for disc ø 180mm (7")**		615 397 829 0
6	Suction cap	615 504 194 0	615 504 194 0
7	Washer	615 643 083 0	615 643 083 0
8	Skirt with brush	615 570 234 0	615 570 231 0
9	Ventilated backing pad ø127mm (5") with nut M14 & 5/8" (max. 12000 rpm)	615 990 199 0	
10	Rigid backing pad ø180mm (7") with nut M14 & 5/8" (max. 8500 rpm)		615 990 198 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
11	Diamond disc ø 127mm (5")	615 804 915 0
12	Complete silencer kit	615 396 166 0
13	Clamp	615 263 024 0
14	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
15	Vibration-damping side handle	615 576 066 0
16	Clippable silencer	615 396 957 0
17	Grease gun includes 24g (0.8oz)	615 990 149 0
•	Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0

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Dust extraction systems for angle models

Ø 127mm (5”) - Ø 180mm (7”)

1350 to 1700 Watts (1.81 to 2.28 hp) - 6000 to 12000 rpm



A

Dust extraction casing for diamond disc ø 127mm (5”)
Vacuum hose ID 25mm (1”)



B/C

Vacuum hose, ID 38mm (1-1/2”)



B

Vacuum hose, ID 38mm (1-1/2”)

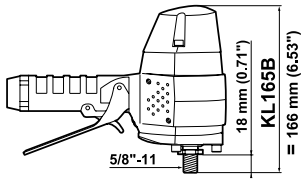
Caution: comply with the speeds recommended by component and abrasive manufacturers.

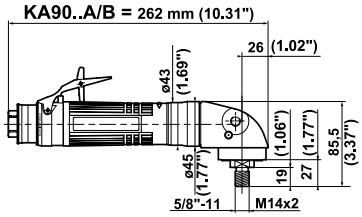
PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT		FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				ø 127mm (5")	Ø 180mm (7")	rpm		W	hp	kg	lb.	in.
CUTTING Ø 127mm (5”) - M14 Output												
A	KA16120A	615 170 435 0	+	615 397 830 0		12000	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16085A	615 170 468 0	+	615 397 830 0		8500	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16075A	615 170 448 0	+	615 397 830 0		7500	M14x2	1500	2.01	1.39	3.0	3/8
A	KA16060A	615 170 449 0	+	615 397 830 0		6000	M14x2	1350	1.81	1.41	3.1	3/8
CUTTING Ø 127mm (5”) - 5/8” Output												
A	KA16120B	615 170 445 0	+	615 397 830 0		12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16085B	615 170 469 0	+	615 397 830 0		8500	5/8-11	1700	2.28	1.39	3.0	3/8
A	KA16075B	615 170 452 0	+	615 397 830 0		7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060B	615 170 453 0	+	615 397 830 0		6000	5/8-11	1350	1.81	1.41	3.1	3/8
CUTTING Ø 127mm (5”) - 5/8” Output for USA Market only (to ANSI B186.1)												
A	KA16120BY	615 170 447 0	+	615 397 830 0		12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16075BY	615 170 450 0	+	615 397 830 0		7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060BY	615 170 451 0	+	615 397 830 0		6000	5/8-11	1350	1.81	1.41	3.1	3/8
SANDING Ø 127 mm (5”) & Ø 180 mm (7”) - M14 & 5/8” Output												
B	KA16120A	615 170 435 0	+	615 397 828 0		12000	M14x2	1700	2.28	1.39	3.0	3/8
B	KA16120B	615 170 445 0	+	615 397 828 0		12000	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16085A	615 170 468 0	+	615 397 828 0	615 397 829 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
B/C	KA16085B	615 170 469 0	+	615 397 828 0	615 397 829 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16075A	615 170 448 0	+	615 397 828 0	615 397 829 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
B/C	KA16075B	615 170 452 0	+	615 397 828 0	615 397 829 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
B/C	KA16060A	615 170 449 0	+	615 397 828 0	615 397 829 0	6000	M14x2	1350	1.81	1.41	3.1	3/8
B/C	KA16060B	615 170 453 0	+	615 397 828 0	615 397 829 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

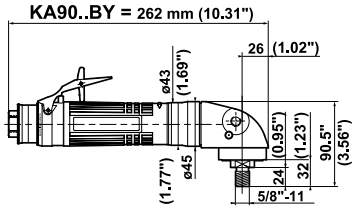
5/8”-11 UNC

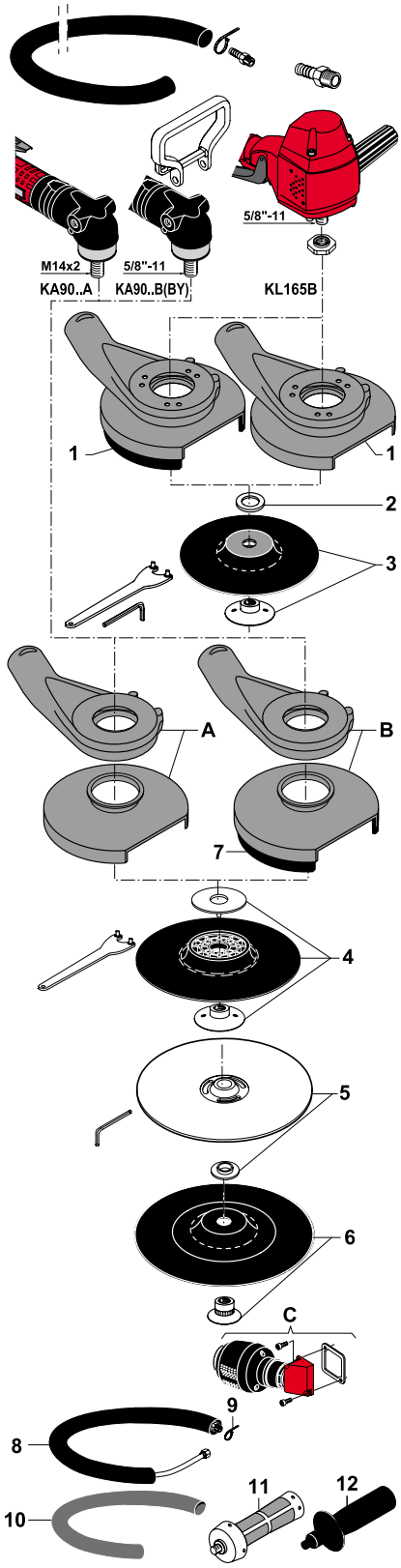
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Accessories









KL165B / KA90.. A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	KL165B	KA90..A KA90..B / BY
• Rear flange	615 503 107 0	
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0	
• Exhaust hose L= 1.5m (60")		615 875 113 0
• Clamp		615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose		615 704 017 0
• Support handle		615 576 069 0

OPTIONAL ACCESSORIES

FOR SANDING MATERIALS ITEM		KL165B non metallic Fibre disc Ø 180mm (7")	KL165B metallic Fibre disc Ø 180mm (7")
•	Complete kit (including item 1-2-3)	615 399 364 0	615 399 365 0
1	Suction cap	615 399 359 0	615 399 360 0
2	Washer Z16U	615 642 050 0	615 642 050 0
3	Rigid backing pad ø 180mm (7") with nut 5/8" (Max. 8500 rpm)	615 990 134 0	615 990 134 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0	615 802 061 0

FOR SANDING METALLIC MATERIALS ITEM		KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
A	Suction cap	615 396 125 0	615 396 125 0
4	Rigid backing pad ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	
5	Spiracool pad (Max. 8500 rpm)		S091836
6	Complete kit (Max. 7000 rpm)		K129587
•	Hex key 8mm (5/16")		615 802 061 0

FOR SANDING NON METALLIC MATERIALS ITEM		KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
B	Suction cap (including item 6-7)	615 396 126 0	615 396 126 0
4	Rigid backing pad ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
7	Spare brush	615 570 233 0	
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	
5	Spiracool pad (Max. 8500 rpm)		S091836
6	Complete kit (Max. 7000 rpm)		K129587
•	Hex key 8mm (5/16")		615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM		KL165B	KA90..A KA90..B / BY
C	Silencer kit	615 399 462 0	
8	Complete silencer kit		615 396 166 0
9	Clamp		615 873 115 0
10	Reinforced cloth-lined exhaust hose L = 0.75m (30")		615 875 116 0
11	Vibration-damping side handle		615 576 066 0
12	Side handle		615 576 038 0
13	Clippable silencer		615 396 655 0





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Dust extraction systems for vertical and angle sanders

Ø 180mm (7")

900 and 1200 Watts (1.21 and 1.61 hp) - 2000 to 6500 rpm

Supplied with M14 & 5/8" threaded spindle only



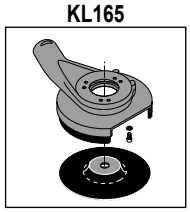
A



B

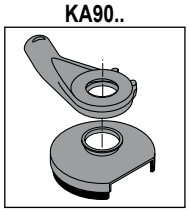
For standard abrasive disc for non metallic materials

KL165



615 399 364 0

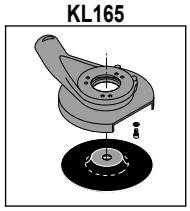
KA90..



615 396 126 0

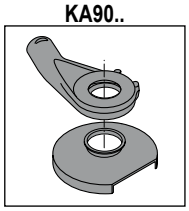
For standard abrasive disc for metallic materials

KL165



615 399 365 0

KA90..



615 396 125 0

Vacuum hose, ID 38mm (1-1/2")



C

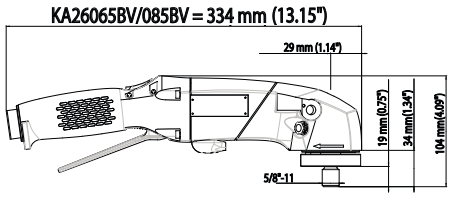
Caution: comply with the speeds recommended by component and abrasive manufacturers.

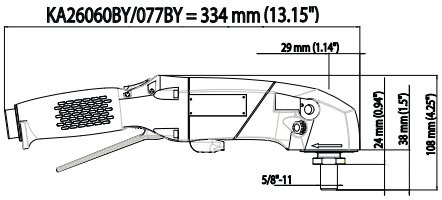
PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 180 mm (7")	rpm	in	W	hp	kg	lb.	in.
VERTICAL SANDER											
A	KL165B	615 170 011 0	+	615 399 364 0 or 615 399 365 0	6500	5/8-11	1 200	1.61	2.3	5.1	1/2
ANGLE SANDERS											
B	KA9030A	615 170 098 0	+	615 396 126 0 or 615 396 125 0	3000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9030B	615 170 099 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8
B	KA9020A	615 170 096 0	+	615 396 126 0 or 615 396 125 0	2000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9020B	615 170 097 0	+	615 396 126 0 or 615 396 125 0	2000	5/8-11	900	1.21	1.6	3.5	3/8
ANGLE SANDER for USA Market Only (to Ansi B186.1)											
C	KA9030BY	615 170 309 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8

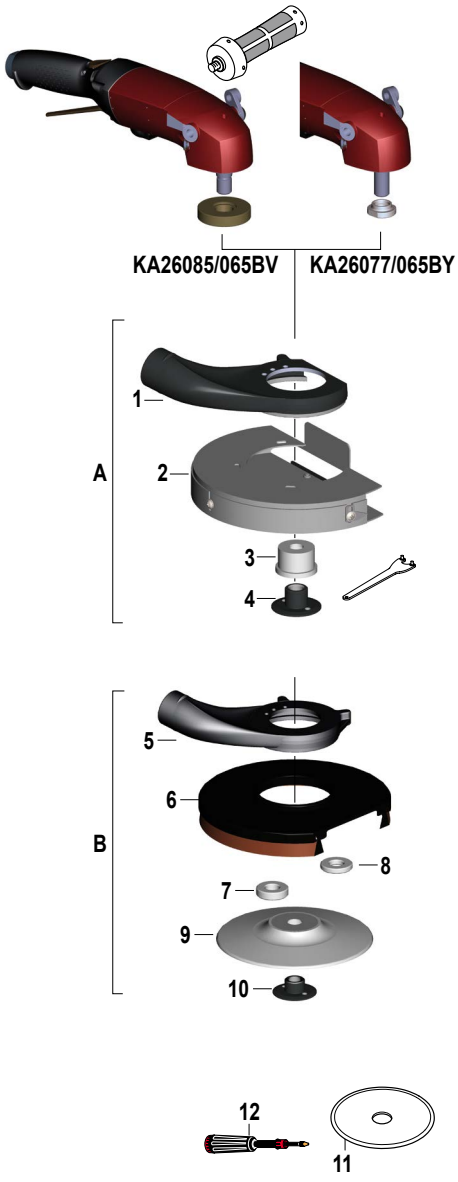
5/8"-11 UNC

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Accessories







KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

		KA26085BV KA26065BV	KA26077BY KA26060BY
•	Auto-balancer	**615 990 195 0**	
•	Rear flange		**615 503 107 0**
•	Rotating handle support kit	**615 397 741 5**	**615 397 741 5**
•	Rotating exhaust kit	**615 397 743 5**	**615 397 743 5**
•	Vibration-damping side handle	**615 576 066 0**	**615 576 066 0**

OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING ITEM		KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
A	**Dust extraction Kit for Diamond disc ø 180mm (7")**	**615 397 844 0**
1	Manifold cutting with screws	**615 504 220 0**
2	Goble cover plate complete	**615 504 221 0**
3	Spacer - hole 5/8"	**615 643 090 0**
4	Flange nut 5/8"	**615 606 048 0**
•	Pin wrench, 35mm (1-3/8")	**615 802 010 0**
DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING ITEM		**KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")**
B	**Dust extraction Kit for disc ø 180mm (7")**	**615 397 843 0**
5	Manifold with screws	**615 504 219 0**
6	Skirt with brush	**615 570 231 0**
7	Spacer 9mm	**615 643 093 0**
8	Spacer 6mm - Hole 16mm (5/8")	**615 643 091 0**
9	Rigid backing pad ø180mm (7") (max. 8500rpm)	**615 990 200 0**
10	Flange nut 5/8"	**615 606 047 0**
•	Pin wrench, 35mm (1-3/8")	**615 802 067 0**

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
11	Diamond disc ø 180mm (7")	**615 811 145 0**
12	Grease gun includes 24g (0.8oz)	**615 990 149 0**
•	Grease for bevel gear (1 kg - 2.2 lb)	**615 990 148 0**

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Dust extraction systems for angle models

Ø 180mm (7”)

2100 Watts (2.82 hp) - 6000 to 8500 rpm



Dust extraction casing for diamond disk ø 180mm (7”)
Vacuum hose, ID 38mm (1-1/2”)



Vacuum hose, ID 38mm (1-1/2”)

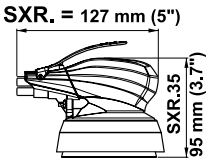
Caution: comply with the speeds recommended by component and abrasive manufacturers.

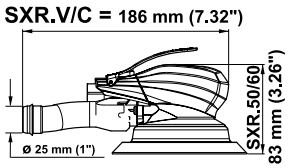
PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 180mm (7”)	rpm	in.	W	hp	kg	lb	in.
CUTTING Ø 180mm (7”)											
A	KA26085BV	615 170 479 0	+	615 397 844 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26065BV	615 170 480 0	+	615 397 844 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
CUTTING Ø 180mm (7”) for USA Market only (to ANSI B186.1)											
A	KA26077BY	615 170 482 0	+	615 397 844 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26060BY	615 170 481 0	+	615 397 844 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7”)											
B	KA26085BV	615 170 479 0	+	615 397 843 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26065BV	615 170 480 0	+	615 397 843 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7”) for USA Market only (to ANSI B186.1)											
B	KA26077BY	615 170 482 0	+	615 397 843 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26060BY	615 170 481 0	+	615 397 843 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2

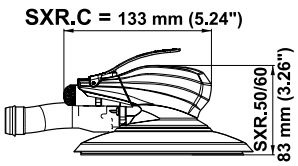
5/8"-11 UNC

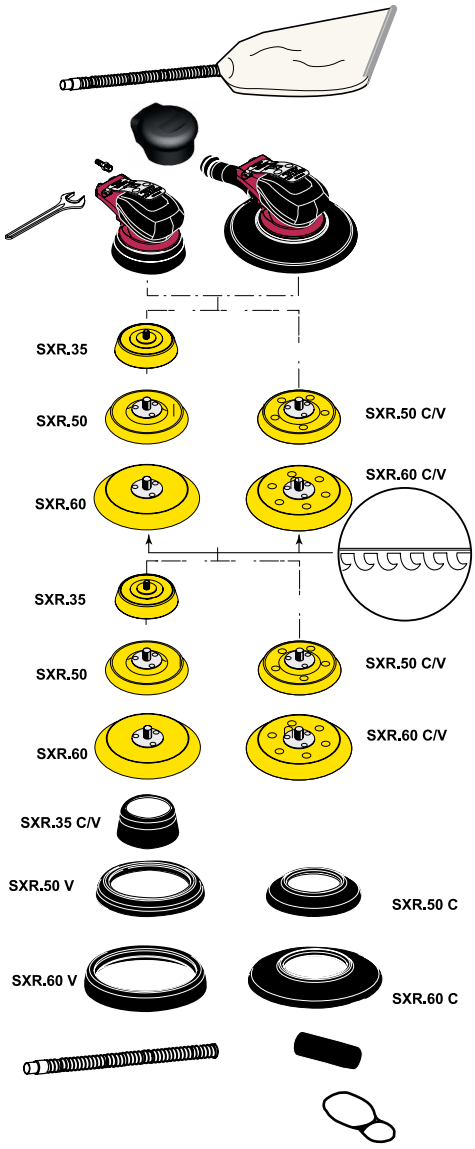
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Accessories









SXR.35. / SXR.50. / SXR.60.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXRA..V and SXRB..V version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 158 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 163 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 161 0	615 990 162 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

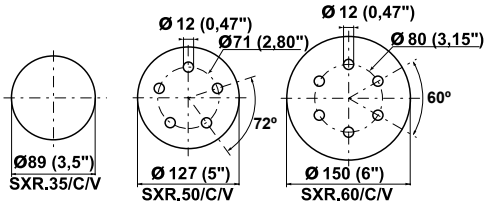
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)35(.)	615 350 110 0
• Vacuum skirt for SXR(.)50C	615 350 107 0
• Vacuum skirt for SXR(.)60C	615 350 106 0
• Vacuum skirt for SXR(.)50V	615 350 103 0
• Vacuum skirt for SXR(.)60V	615 350 102 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

BAIL HOOK	
• Bail hook	615 571 060 0

PAD DIMENSIONS





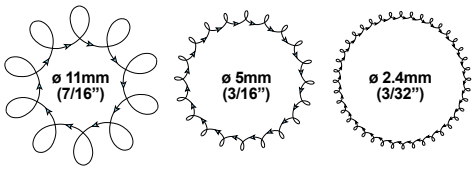


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Random orbital sanders for abrasive discs

Ø 89mm (3.5”) - ø 127mm (5”) - ø 150mm (6”)

210 Watts (0.3 hp) - 12000 rpm



For all your large applications | For all your versatile applications | For a best finish



SXR(.)35



SXR(.)35C



SXR(.)35V



SXR(.)50



SXR(.)50C



SXR(.)50V



SXR(.)60



SXR(.)60C



SXR(.)60V

HOW TO SELECT YOUR SX SANDER —— Eg: SXRA35C - SXR model / orbit ø 2.4mm (3/32”) / pad ø 89mm (3.5”) / with dust extraction

SX **R** **A** **35** **C**

- **C** : external vacuum / **V** : self vacuum / - : non-vacuum
- **35** : pad ø 89mm (3.5”) / **50** : pad ø 127mm (5”) / **60** : pad ø 150mm (6”)
- **A** : orbit ø 2.4mm (3/32”) / **B** : orbit ø 5mm (3/16”) / **C** : orbit ø 11mm (7/16”)
- **R** : random orbital sander
- Name of the range

Supplied kit



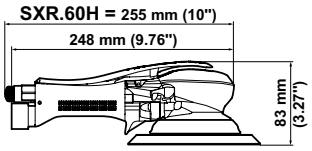
**Sanders equipped with PSA pad*

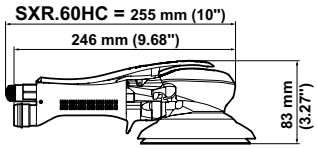
Caution: comply with the speeds recommended by component and abrasive manufacturers.

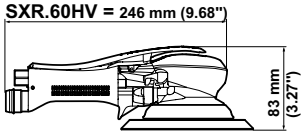
PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
RANDOM ORBITAL SANDERS, ORBIT ø 11mm (7/16”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SXRC60	**615 170 462 0**	SXRC60C	**615 170 463 0**	SXRC60V	**615 170 464 0**	0.88	1.94	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT ø 5mm (3/16”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 89	3.5	SXRB35	**615 170 209 0**	SXRB35C	**615 170 215 0**	SXRB35V	**615 170 212 0**	0.8	1.7	8.0	16.6	1/4	6	1/4
ø 127	5	SXRB50	**615 170 210 0**	SXRB50C	**615 170 216 0**	SXRB50V	**615 170 213 0**	0.8	1.7	8.0	16.6	1/4	6	1/4
ø 127	5	SXRB50*	**615 170 300 0**					0.8	1.7	8.0	16.6	1/4	6	1/4
ø 150	6	SXRB60	**615 170 211 0**	SXRB60C	**615 170 217 0**	SXRB60V	**615 170 214 0**	0.8	1.7	8.0	16.6	1/4	6	1/4
ø 150	6	SXRB60*	**615 170 317 0**					0.8	1.7	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT ø 2.4mm (3/32”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 89	3.5	SXRA35	**615 170 218 0**	SXRA35C	**615 170 224 0**	SXRA35V	**615 170 221 0**	0.8	1.7	8.0	16.6	1/4	6	1/4
ø 127	5	SXRA50	**615 170 219 0**	SXRA50C	**615 170 225 0**	SXRA50V	**615 170 222 0**	0.8	1.7	8.0	16.6	1/4	6	1/4
ø 150	6	SXRA60	**615 170 220 0**	SXRA60C	**615 170 226 0**	SXRA60V	**615 170 223 0**	0.8	1.7	8.0	16.6	1/4	6	1/4

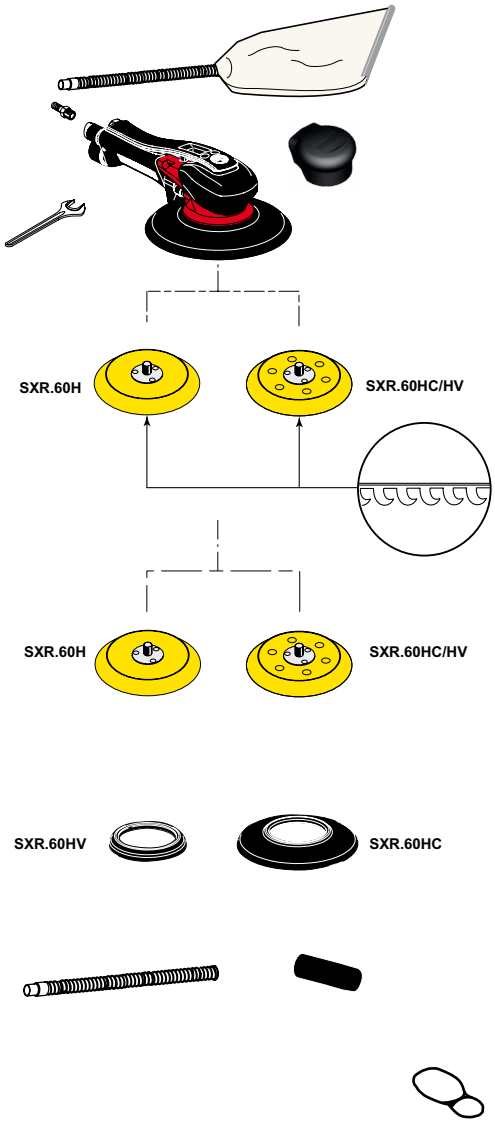
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Accessories









SXR.60H.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXR.60HV version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

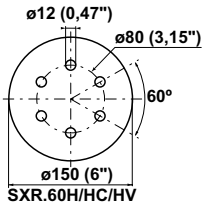
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)60HC	615 350 106 0
• Vacuum skirt for SXR(.)60HV	615 350 102 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

BAIL HOOK	
• Bail hook	615 571 060 0

PAD DIMENSIONS





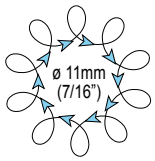


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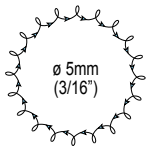
Random orbital sanders for abrasive discs

Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



For all your large applications



For all your versatile applications



SXR.60H



SXR.60HC



SXR.60HV

HOW TO SELECT YOUR SX SANDER —— SXRB60H - SXR model / orbit 5mm (3/16") / pad ø 150mm (6") / Two handed / non vacuum

SX **R** **B** **60** **H** **(.)**

- **(.)** : non-vacuum / **C** : external vacuum / **V** : self-vacuum
- **H** : two handed
- **60** : pad ø 150mm (6")
- **B** : orbit ø 5mm (3/16") / C : orbit ø 11mm (7/16")
- **R** : random orbital sander
- Name of the range

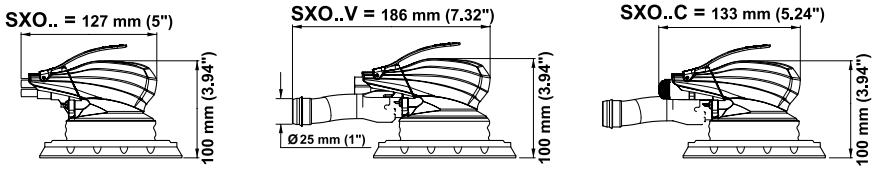
*Sanders equipped with PSA pad

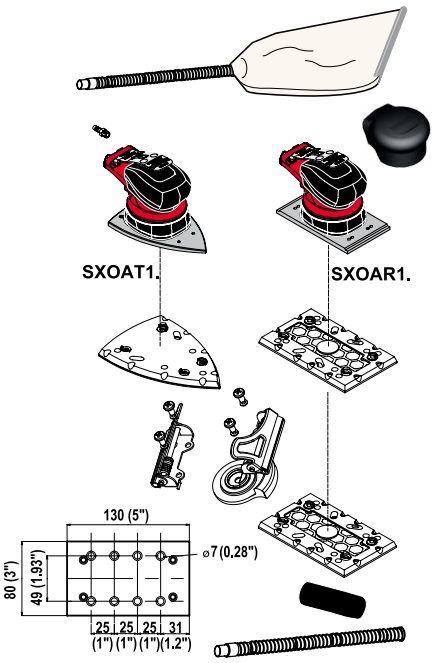
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
RANDOM ORBITAL SANDERS, ORBIT ø 11mm (7/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SXRC60H	**615 170 465 0**	SXRC60HC	**615 170 466 0**	SXRC60HV	**615 170 467 0**	0.88	1.94	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT ø 5mm (3/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SXRB60H	**615 170 355 0**	SXRB60HC	**615 170 362 0**	SXRB60HV	**615 170 359 0**	0.9	2.0	8.0	16.6	1/4	6	1/4
ø 150	6	SXRB60H*	**615 170 356 0**					0.9	2.0	8.0	16.6	1/4	6	1/4

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Accessories





SXOAR1. / SXOAT1.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXOA..V version	615 396 264 0

PAD FOR HOOK & LOOP ABRASIVE	PART NO.
• Pad 80x130mm (3x5") for SXOAR..	615 350 121 0
• Pad 147x100mm (6x4") for SXOAT1..	615 350 122 0

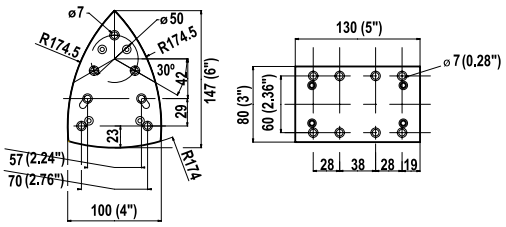
OPTIONAL ACCESSORIES

	PART NO.
• Paper holder kit	615 396 413 0
• Pad 80x130mm (3x5") for SXOAR..	615 350 123 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

PAD DIMENSIONS







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Orbital sanders for abrasive sheets

80 x 130mm (3”x 5”) - 147 x 100mm (6”x 4”)

210 Watts (0.3 hp) - 10000 rpm



SXOAR1



SXOAR1C



SXOAR1V



SXOAT1



SXOAT1C



SXOAT1V



SXOAR1 equipped with paper holder kit P.N 615 396 413 0

HOW TO SELECT YOUR SXO SANDER —— Eg: SXOAT1C - SXO model / orbit ø 2.4mm (3/32”) iron pad / with dust suction

SX **O** **A** **T1** **C**

- **C** : external vacuum / **V** : self-vacuum / - : non-vacuum
- **T1** : triangular pad - Iron / **R1** : rectangular pad
- **A** : orbit ø 2.4mm (3/32”)
- **O** : orbital sander
- Name of the range

Supplied kit

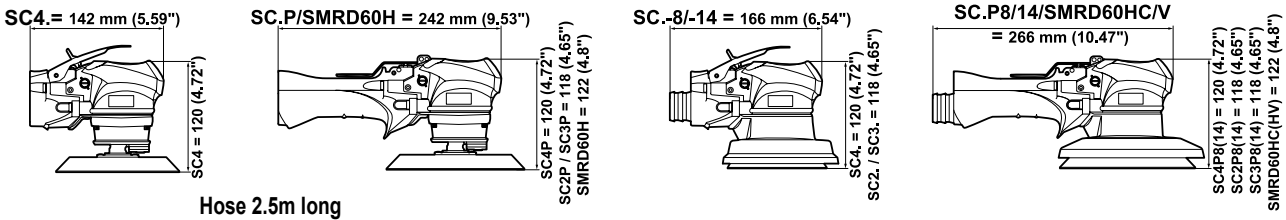


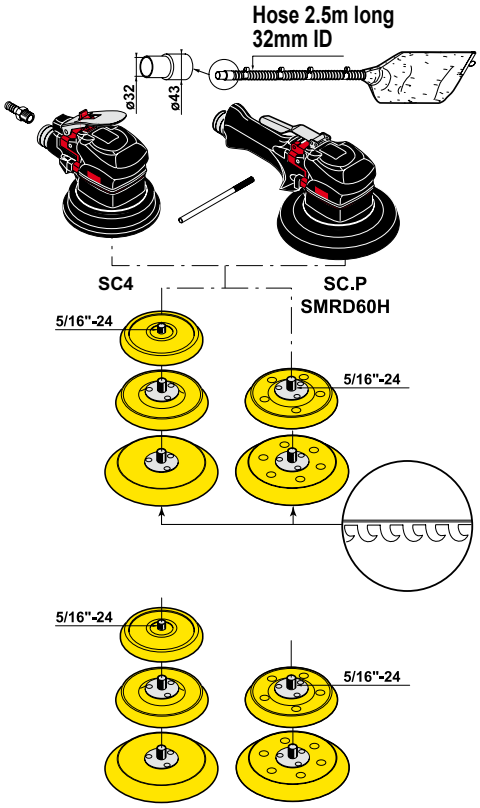
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
ORBITAL SANDERS, ORBIT ø 2.4mm (3/32”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
80x130	3x5	SXOAR1	**615 170 233 0**	SXOAR1C	**615 170 237 0**	SXOAR1V	**615 170 235 0**	1.0	2.2	8.0	16.6	1/4	6	1/4
147x100	6x4	SXOAT1	**615 170 234 0**	SXOAT1C	**615 170 238 0**	SXOAT1V	**615 170 236 0**	1.0	2.2	8.0	16.6	1/4	6	1/4

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Accessories





SC4.. / SC..P / SMRD60..

ACCESSORIES INCLUDED

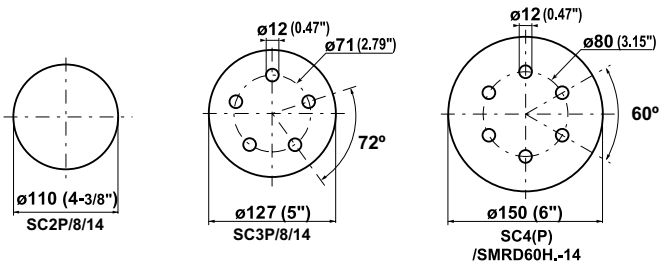
	PART NO.
• 1/4" air hose nipple for 8mm (5/32") ID hose	615 704 019 0
• Clamping lever	615 595 202 0
• Complete dust extraction kit for version (SC.-14/SRMD60HV)	615 399 471 0

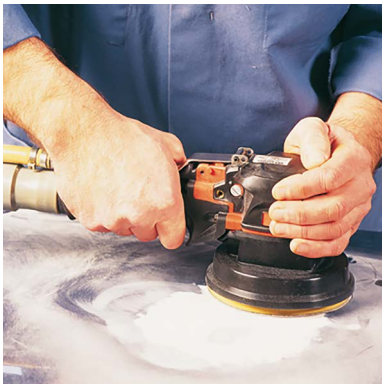
PADS: Thread 5/16" - 24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (-8) OR (-14) (C) OR (V) WITH HOLES
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 102 0	-
• Pad ø 127mm (5") - SC3P	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16" - 24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ABRASIVE WITH HOLES (-8) OR (-14) (C) OR (V)
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 101 0	-
• Pad ø 127mm (5") - SC3P	615 990 111 0	615 990 110 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 119 0	615 990 118 0

PAD DIMENSIONS



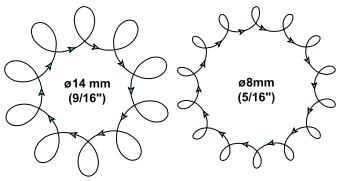


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Random orbital sanders for abrasive discs

Ø 110mm (4-3/8”) - Ø 127mm (5”)
Ø 150mm (6”)

375 Watts (0.5 hp) - 10000 rpm





SC4



SC4P



SC4-8



SC4P8 - SMRD60HC



SMRD60H



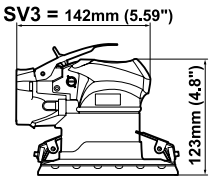
SC4P14 - SMRD60HV

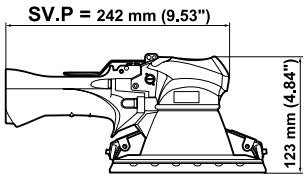
Caution: comply with the speeds recommended by component and abrasive manufacturers.

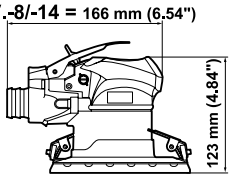
PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
SANDERS WITH PALM GRIP, ORBIT ø 8mm (5/16”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SC4	**615 170 081 0**	SC4-8	**615 170 093 0**	SC4-14	**615 170 087 0**	1.3	2.86	11	23	1/4	8	5/16
SANDERS WITH HANDLE GRIP, ORBIT ø 8mm (5/16”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 110	4-3/8	SC2P	**615 170 077 0**	SC2P8	**615 170 089 0**	SC2P14	**615 170 083 0**	1.2	2.64	11	23	1/4	8	5/16
ø 127	5	SC3P	**615 170 079 0**	SC3P8	**615 170 091 0**	SC3P14	**615 170 085 0**	1.3	2.86	11	23	1/4	8	5/16
ø 150	6	SC4P	**615 170 078 0**	SC4P8	**615 170 090 0**	SC4P14	**615 170 084 0**	1.4	3.08	11	23	1/4	8	5/16
LARGE ORBIT SANDERS WITH HANDLE GRIP, ORBIT ø 14mm (9/16”)														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
ø 150	6	SMRD60H	**615 170 280 0**	SMRD60HC	**615 170 281 0**	SMRD60HV	**615 170 282 0**	1.3	2.86	11	23	1/4	8	5/16

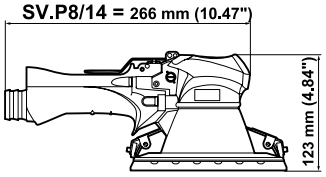
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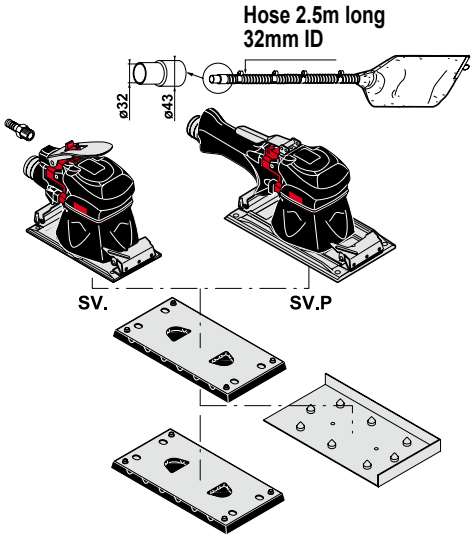
Accessories

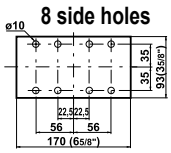












SV.. / SV..P

ACCESSORIES INCLUDED

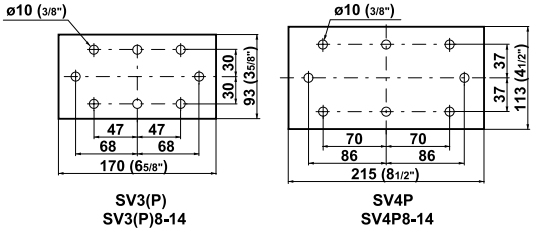
	PART NO.
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Complete dust extraction kit for version (-14)	615 399 471 0

PADS AND DRILLING PLATE	PAD	DRILLING PLATE FOR RELEASE (-8) OR (-14)
• Pad 170x93mm (6-5/8" x 3-5/8") - SV3(P)	615 350 018 0	615 990 094 0
• Pad 215x113mm (8-1/2" x 4-1/2") - SV4P	615 350 019 0	615 990 095 0

OPTIONAL ACCESSORIES

	PART NO.
• Pad 170x93mm (6-5/8" x 3-5/8") - 8 side holes SV3(P)	615 350 057 0

PAD DIMENSIONS





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Orbital sanders for abrasive sheets

170 x 93mm (6-5/8"x 3-5/8") - 215 x 113mm (8-1/2"x 4-1/2")

375 Watts (0.5 hp) - 8000 rpm



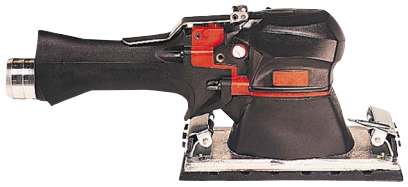
SV3



SV3P



SV3-8



SV3P8



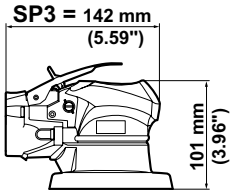
SV3P14

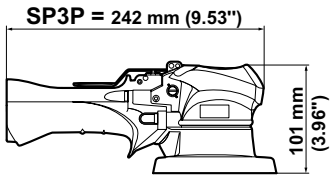
Caution: comply with the speeds recommended by component and abrasive manufacturers.

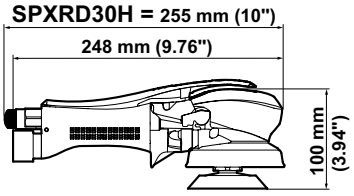
PAD SIZE		MODEL	PART NUMBER	MODEL	PAR NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
SANDERS WITH PALM GRIP, ORBIT ø 5mm (3/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
170x93	65/8 x 35/8	SV3	**615 170 066 0**	SV3-8	**615 170 074 0**	SV3-14	**615 170 070 0**	1.7	3.74	11	23	1/4	8	5/16
SANDERS WITH HANDLE GRIP, ORBIT ø 5mm (3/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
170x93	65/8 x 35/8	SV3P	**615 170 067 0**	SV3P8	**615 170 075 0**	SV3P14	**615 170 071 0**	1.8	3.96	11	23	1/4	8	5/16
215x113	81/2 x 41/2	SV4P	**615 170 068 0**	SV4P8	**615 170 076 0**	SV4P14	**615 170 072 0**	1.9	4.19	11	23	1/4	8	5/16

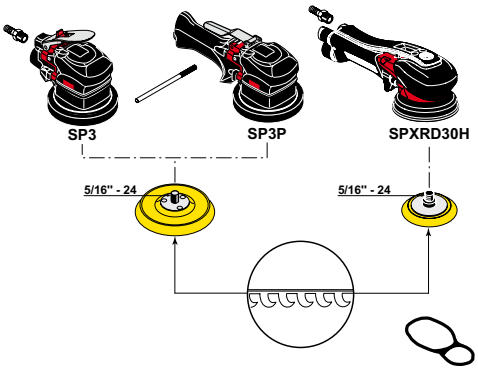
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Accessories





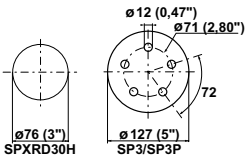




SP3 / SP3P / SPXRD30H

ACCESSORIES INCLUDED

	SP3/SP3P	SPXRD30H
• 1/4" air hose nipple for 8mm (5/16") ID hose	**615 704 019 0**	
• 1/4" air hose nipple for 6mm (1/4") ID hose		**615 705 009 0**
• Clamping lever	**615 595 202 0**	
• Small grip (medium-size grip fitted on sander)		**615 303 109 0**
• Bail hook		**615 571 060 0**



PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE
• Pad ø 127mm (5") for SP3 / SP3P	**615 990 123 0**
• Pad ø 76mm (3") for SPXRD30H	**615 990 178 0**





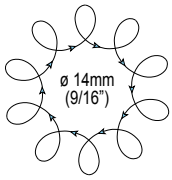


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Random orbital polishers

Ø 76mm (3”) - Ø 127mm (5”)

210 and 375 Watts (0.3 and 0.5 hp) - 10000 and 12000 rpm





SP3



SP3P



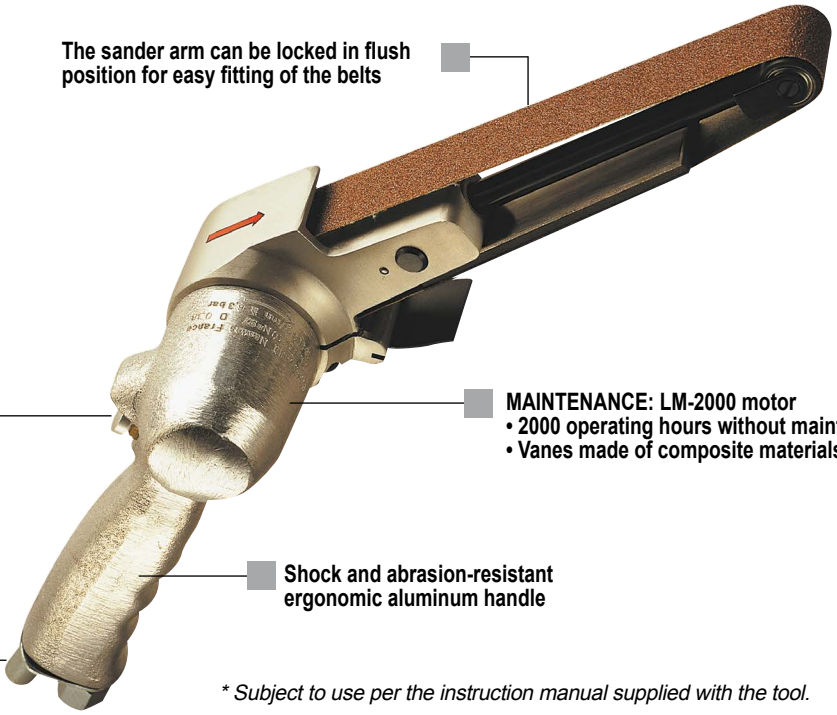
SPXRD30H

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.			kg	lb	l/s	cfm	in.	mm	in.
POLISHER WITH PALM GRIP, ORBIT ø 14mm (9/16”)										
		NON-VACUUM								
ø 127	5	SP3	**615 170 198 0**	1.2	2.64	11	23	1/4	8	5/16
POLISHER WITH HANDLE GRIP, ORBIT ø 14mm (9/16”)										
		NON-VACUUM								
ø 76	3	SPXRD30H	**615 170 332 0**	0.9	1.98	11	23	1/4	8	5/16
ø 127	5	SP3P	**615 170 197 0**	1.3	2.86	11	23	1/4	8	5/16

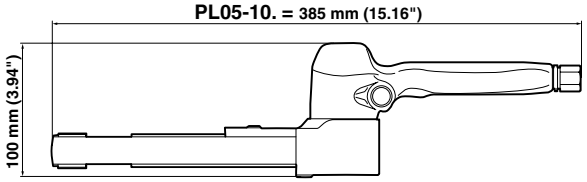
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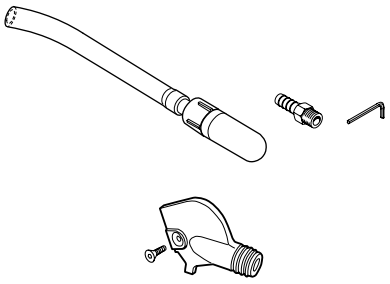
Belt sanders



** Subject to use per the instruction manual supplied with the tool.*

Accessories





PL05-10D / PL05-10E / PL05-10F

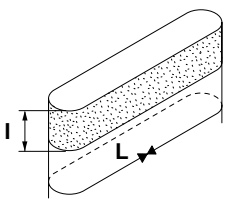
ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose	615 396 022 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Hex. key 4 mm	615 802 054 0

OPTIONAL ACCESSORIES

		PART NO.
•	Suction cap for 32mm (1-1/4") ID vacuum hose	321003
•	Screw FHc M4x10	615 616 118 0

OPTIONAL ACCESSORIES

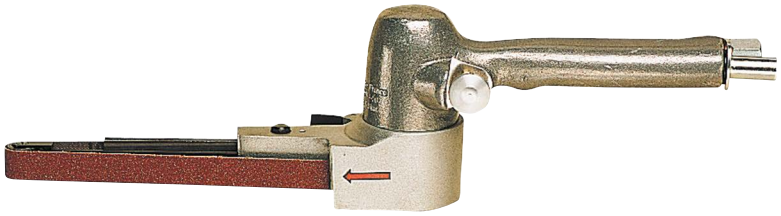


COATED ABRASIVE BELTS					
Lx l		GRIT NUMBER			
mm	in.	P40	P60	P80	P100
480 x 16	18-7/8" x 5/8		615 811 218 0	615 811 219 0	615 811 220 0
480 x 20	18-7/8" x 25/32	615 811 223 0	615 811 224 0	615 811 225 0	615 811 226 0
480 x 25	18-7/8" x 63/64	615 811 230 0	615 811 231 0	615 811 232 0	615 811 233 0
Lx l		GRIT NUMBER			
mm	in.	P120	P150	P180	P240
480 x 16	18-7/8" x 5/8	615 811 221 0	615 811 222 0		
480 x 20	18-7/8" x 25/32	615 811 227 0	615 811 228 0	615 811 229 0	
480 x 25	18-7/8" x 63/64		615 811 235 0	615 811 236 0	

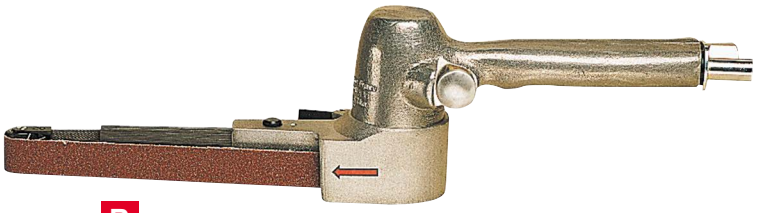
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Belt sanders

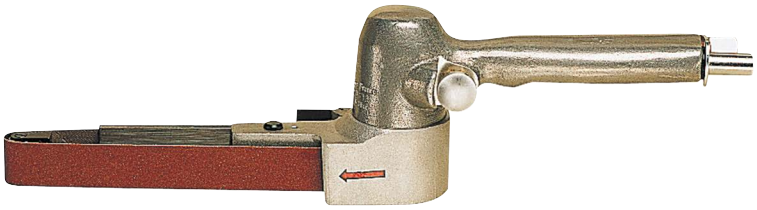
300 Watts (0.4 hp) - 16000 rpm



A



B



C

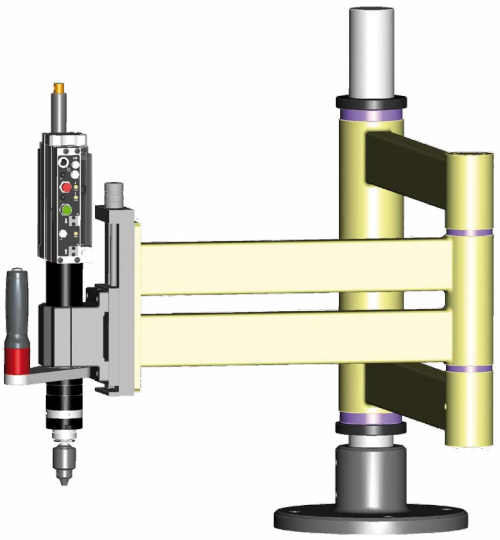


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	BELT SIZE		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
A	PL05-10D	615 170 131 0	16000	480 x 16	18-7/8 x 5/8	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4
B	PL05-10E	615 170 132 0	16000	480 x 20	18-7/8 x 25/32	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4
C	PL05-10F	615 170 133 0	16000	480 x 25	18-7/8 x 63/64	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4

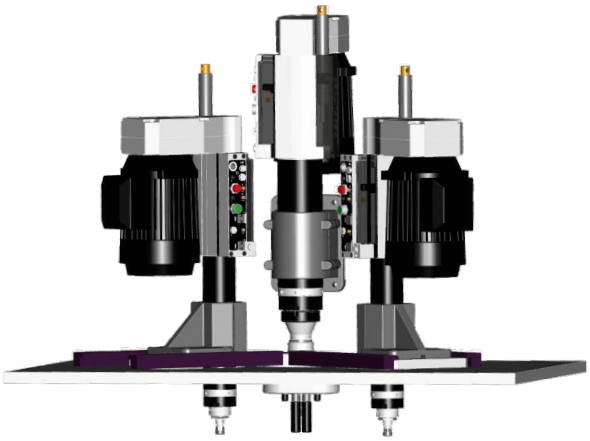
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AFD Applications



Ease of Integration into Machine or Process

- Extensive range of mounting clamps
- Control interfaces to link AFD(E) to other equipment through pneumatics or electrically
- Single signal required for AFD(E) to perform cycle
- Output signals at datum and depth
- Electric motor mounting on 200, 400 and 600 series can be rotated 180°



Comprehensive range of Product

- For single spindle operations to multi spindle processes
- Pneumatic and electric drive from 0.22 to 1.1kW (0.3 to 1.47hp) with thrusts up to 1735N (390lbf)
- Reliability through quality



desoutter.info/AFD

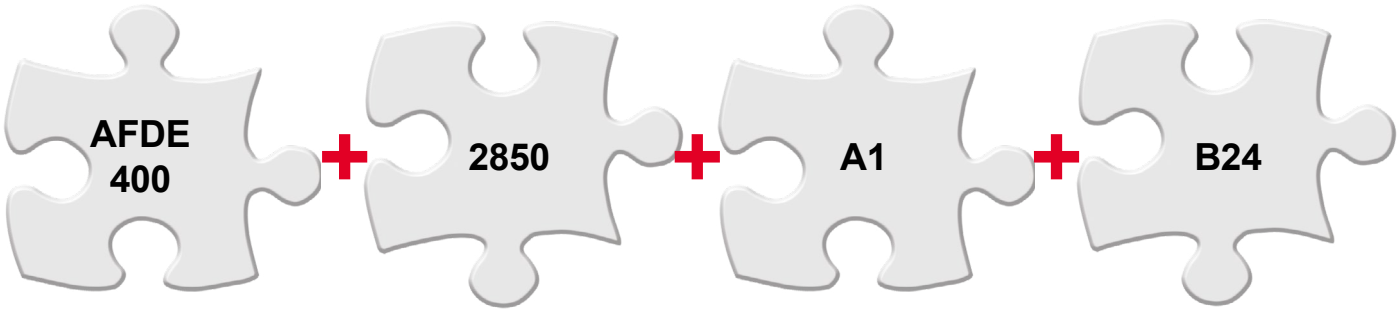
Modular Design

- Flexibility of unit function and speed
- Common components in different models reduce inventory
- Multiple spindle head options
- Drilling and tapping options for all models

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Modular sales concept

More than 1500 different versions



Model Type

Pneumatic Feed and Drive
AFD205 0.22kW (0.30hp)
AFD215 0.22kW (0.30hp)
AFD415 0.38kW (0.51hp)
AFD684 0.62kW (0.83hp)

Pneumatic Feed, Electric Drive
AFDE200 0.25kW (0.34hp)
AFDE400 0.33kW (0.44hp)
AFDE410 0.75kW (1.00hp)
AFDE610 0.75kW (1.00hp)
AFDE620 1.10kW (1.50hp)

Electric Feed and Drive via Leadscrew
AFTE480 0.75kW (1.00hp)

No Load Speed

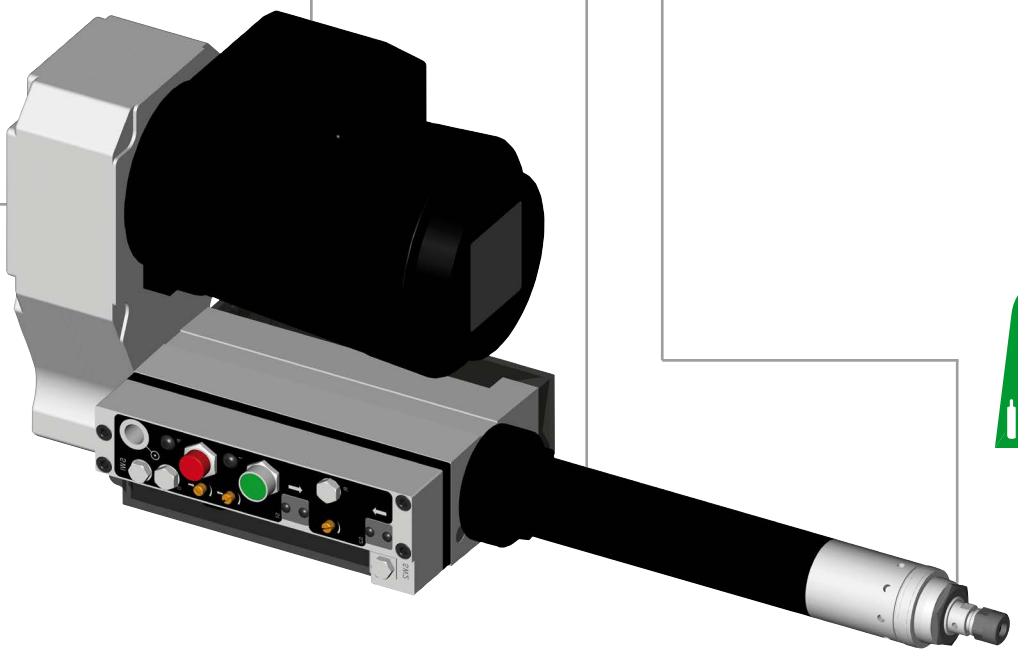
The free output speed of the drill or tapper with no drilling or tapping load applied.

CONTROL BLOCK

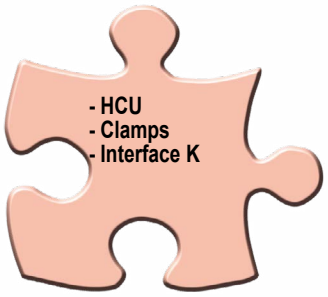
A1 – Full feature type(1)
– Automatic cycle
A6 – Simple type(1)
– Remote cycle control
Control block AFTE
- Leadscrew type - PNP
- Leadscrew type - NPN

Output Spindle

Code Output type
- Chuck
- Collet (up to 8mm (5/16"))
- Preset Tooling DIN55058
- 6.5mm (1/4") & 8mm (5/16") Tapping Gearbox
- B16 Taper
- Jacobs No1 & No2
- ISO30 Taper
- Multi Head / Tapping
- Gearbox Adaptor
- High Speed Gearbox



Optional



(1) Not required on AFTE models.

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Air Motors

ADVANTAGES

Air motors are versatile power sources which can be used to power many kinds of operations requiring a rotational drive. They have many advantages over electric motors, and often become the only feasible method of operation.



ATEX available

LARGE CHOICE OF POTENTIAL CUSTOMERS



Textile



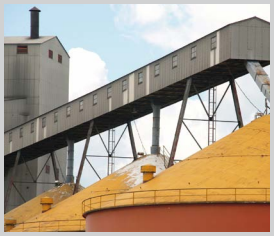
Marine



Petrochemical



Food Processing



Agricultural Equipment



Printing Machinery



Chemical



Strapping Machinery

Desoutter offers a wide range of rotating vane air motors in **stainless steel** and **lubrication free** versions, with power ranging from 0.16 KW (0.21 hp) to 2.8 KW (3.75 hp). Most motors can be supplied as either undirectional with a threaded shaft or reversible with a keyed shaft. Alternative output options are also available.

Desoutter air motors can also be **Atex certified** for environments with potentially explosive atmospheres.

Air motors are an ideal solution for many applications in such varied equipment as material handling, packaging, strapping or printing machinery, petrochemical and agricultural equipment, food processing machinery, and many more custom and standard machines.

Air motors offer many advantages over electric motors, and are often the only feasible option for driving.

desoutter.info/AirMotors

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ATEX AVAILABLE
II 2G T4 IIC D110°C or II 2G T5 IIC D85°C
or II 2G c IIC T6





M16-KL, M16-KSL Series
0.16 KW (0.21 hp)
Maximum torque, 8.5 Nm (6.3 ft.lb)
Keyed shaft
Standard and stainless steel
Reversible and non reversible



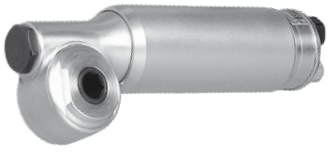
M25-KL / TL, M25-KSL Series
0.27 KW (0.36 hp)
Maximum torque, 22 Nm (16.2 ft.lb)
Keyed shaft, threaded shaft
Standard and stainless steel
Reversible and non reversible



M39-KL / TL, M39-KSL Series
0.39 KW (0.52 hp)
Maximum torque, 26 Nm (19.2 ft.lb)
Keyed shaft, threaded shaft
Standard and stainless steel
Reversible and non reversible



M84-K Series
0.84 KW (1.13 hp)
Maximum torque, 485 Nm (358 ft.lb)
Keyed shaft
Reversible and non reversible



2H410 Series
0.66 KW (0.85 hp)
Maximum torque, 102 Nm (75.2 ft.lb)
Worm drive motors



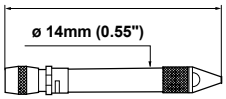
M180 Series
1.83 KW (2.45 hp)
Maximum torque, 337 Nm (249 ft.lb)
Reversible and non reversible



M290 Series
2.8 KW (3.75 hp)
Maximum torque, 536 Nm (395 ft.lb)
Reversible and non reversible

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Accessories



VP2-X

ACCESSORIES INCLUDED

	PART NO.
• Air Hose - 3.2mm bore - Length 2m (78.7") - 1/8" - 1/4" BSP	**75902**
• Tungsten carbide tipped needle	**63213**
• Key	**63533**

D144-T-.. / S144-T-.. / D172-L / AV101

ACCESSORIES INCLUDED

ITEM		APPLICATION	PART NO. D144-T	S144-T	D172-L	AV101
•	Spindle Wrench		**164433**		**15533**	
•	Clamp Nut Wrench		**29443**			
•	Hex. Key – 4mm (5/32") A/F		**204903**		**204903**	
1	Saw Blade – diamond coated 64mm (2.5") dia.	**Fibreglass**	**32732**			
1	Saw Blade – 80 teeth 45mm (1.77") dia.	**Soft Steel <1.2mm (3/64")**		**76362**		
1	Saw Blade 64mm (2.5") dia.	**Plastics**			**90762**	
1	Saw Blade – teflon coated 80mm (3.15") dia.	**Plastics**			**90772**	
2	Saw Blade 50.8mm (2") radius x 50mm (1.97") wide	**Soft Wood**			**90832**	
3	Depth Gauge				**27262**	
4	Upholstery Nozzle					**106443**
5	Crevice Nozzle					**106533**

OPTIONAL ACCESSORIES

ITEM		APPLICATION	PART NO. D144-T	S144-T	D172-L
1	Saw Blade – 80 teeth 45mm (1.77") dia	**Soft Steel <1.2mm (3/64")**			**76362**
6	Saw Blade 64mm (2.5") dia.	**Wood**	**34252**		
6	Saw Blade 50mm (1.97") dia.	**Soft Steel >1.2mm (3/64")** max depth 7mm		**76372**	
6	Saw Blade 50mm (1.97") dia.	**Hard Steel <1.2mm (3/64")** max depth 10mm (3/8")		**76382**	
6	Saw Blade 50mm (1.97") dia.	**Aluminium** max depth 10mm (3/8")		**76392**	
7	Dust Extraction Hood includes 2m hose – 32mm (1.26") ID				**78472**
6	Saw Blade – diamond tipped 64mm (2.5") dia.	**Fibreglass**			**16962**
6	Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 64mm (2.5") dia.	**Fibreglass**			**90722**
6	Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 80mm (3.15") dia.	**Fibreglass**			**90732**
6	Saw Blade – 1.5mm (0.06") tooth pitch 51mm (2") dia.	**Soft Wood**			**90782**
6	Saw Blade – 1.8mm (0.07") tooth pitch 64mm (2.5") dia.	**Soft Wood**			**90792**
6	Saw Blade – 1.5mm (0.06") tooth pitch 76mm (3") dia.	**Soft Wood**			**90802**
8	Saw Blade 22mm (0.87") radius x 15mm (19/32") wide	**Soft Wood**			**90822**
9	Saw Blade 63.5mm (2.5") dia. 60mm (2.36") + 16mm (5/8") segments	**Soft Wood**			**90842**

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A



B



C



D



E

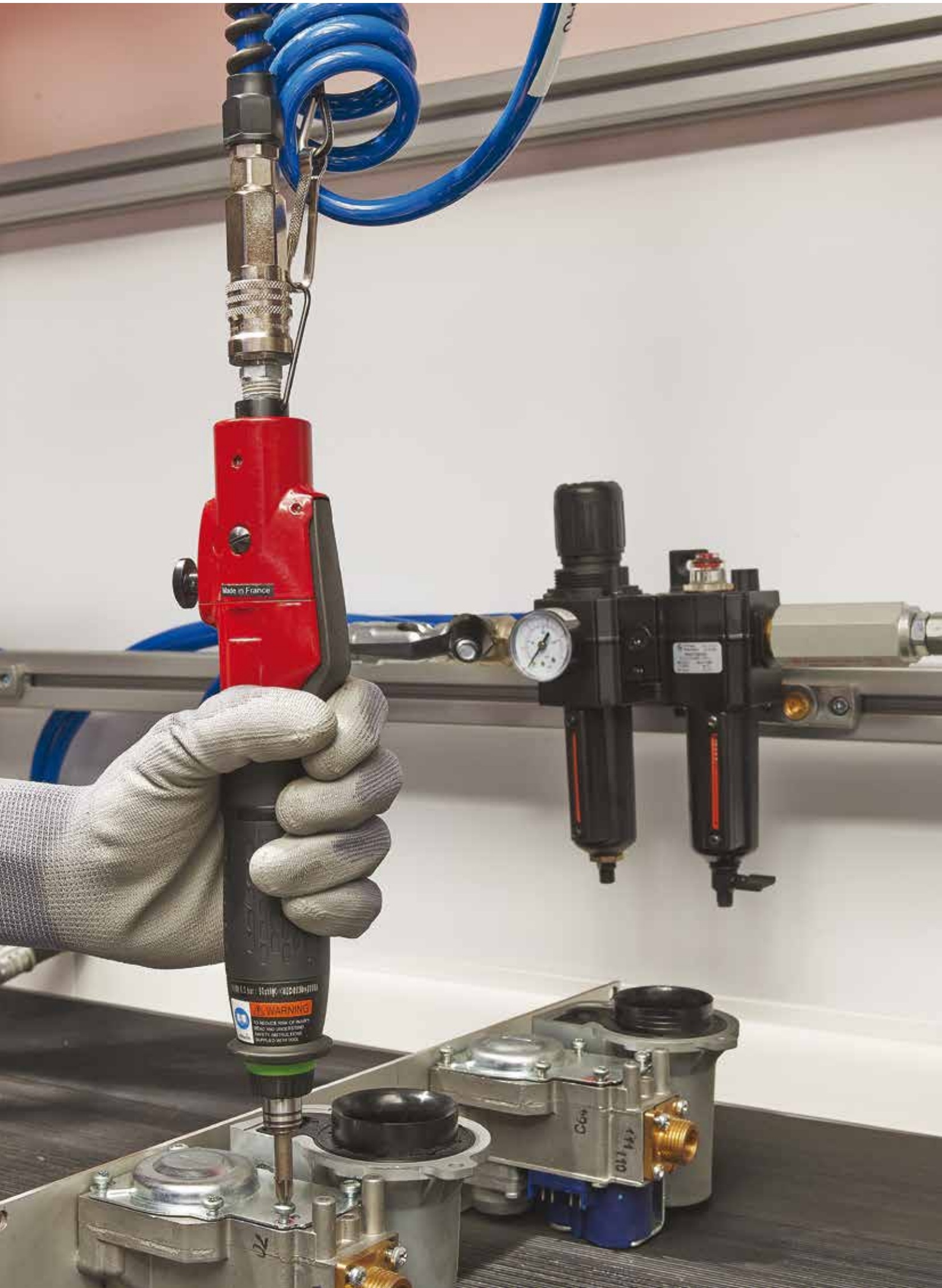


F

PIC REF	MODEL	PART NUMBER	BLOWS PER MINUTE	WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
			Blows/min	kg	lb.	l/s	cfm	in.	mm	in.
AIR SCRIBE										
A	VP2-X	671094	11400	0.1	0.2	0.9	1.9	1/8	3.2	1/8

PIC REF	MODEL	PART NUMBER	FREE SPEED	OSCILLATING FREQUENCY	BLADE Ø		WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø	
			rpm	c/min	mm	in.	kg	lb.	mm	in.	l/s	cfm	in.	mm	in.
FIBREGLASS SAW - capacity 13mm (1/2") depth															
B	D144	615 170 526 0	3100		64	2.5	0.83	1.83	214	8.43	9.4	19.9	1/4 BSP	10	3/8
CIRCULAR SAW - capacity 10mm (3/8") depth (hard steel 1.2mm (3/64") depth)															
C	S144-T-3100	936974	3100	-	45	1.77	1.4	3.1	245	9.65	9.4	19.9	1/4 BSP	10	3/8
OSCILLATING SAW															
D	D172	615 170 527 0	-	20000	80	3.2	0.76	1.67	265.2	10.44	9.5	20	1/4 BSP	10	3/8
VACUUM CLEANER															
E	AV101	128534	-	-	-	-	0.7	1.54	202	7.95	5.9	12.5	1/4 BSP	6	1/4
VACUUM PEN															
F	V100	129504	-	-	-	-	0.45	0.99	137	5.39	0.7	0.33	3.6 Spline	4	5/32

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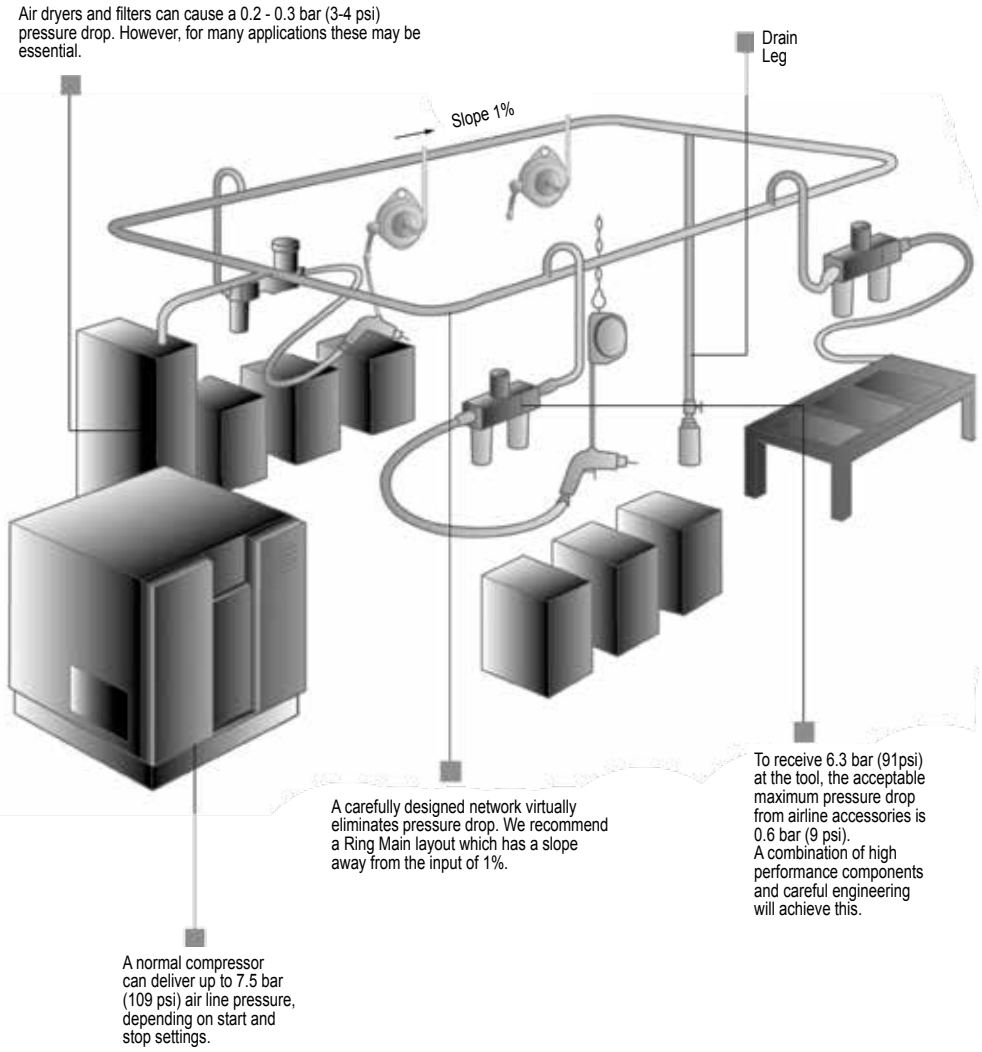
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Air Line Accessories

Desoutter Air Line Accessories are specially developed to be used with Desoutter Tools & Equipments

Desoutter Air Line Accessories can also be used with other pneumatic products

All accessories can be used for other applications with any pneumatic equipments



Desoutter Air Preparation Units are designed to help you get maximum performance from your tools

They ensure minimal pressure drop and thus minimum energy losses in the air distribution system, benefiting the environment and cutting your operating costs

The lifetimes of your tools will be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation guarantees productivity and good total economy

When developing the Desoutter Air Line Accessories range, we have focused on Performance, Quality, Ergonomics and Safety. Based on this, we now offer a wide range of accessories for optimal air line installation.

Our accessories enable to reach higher productivity with lower energy consumption, a sustainable reduction of energy costs and an extended lifetime of your tools

Performance

In order to get the best performance out of your air line installation it is key to supply air at a constant pressure (6.3 bar) This, together with minimizing the pressure drop, is the primary focus when designing the Desoutter couplings, hoses and FRLs

The result is not only a better performance in terms of a reduction of energy costs but also in a better lifetime of the tools

Ergonomics and Safety

To further improve the comfort of use for our customers we now offer hoses in our EFFI line with lower weight and more flexible. In combination with Easy Flow, Safety couplings, Airlfex and high quality balancers you can build up a workplace where the operators' safety and ergonomics are in focus

Quality

All our products are developed to perform in industrial applications. Desoutter Accessories are made with the highest quality materials to ensure the best possible performance and lifetime of the tools

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Hoses

Desoutter offers the highest quality of PVC, Rubber and Polyurethane hoses in the Industrial Line to cover the different needs of applications with Power Tools

In addition to this, the EFFI series is designed with special features such as low weight and flexibility, to meet the highest ergonomic demands, as well as antistatic for applications with ESD demands

HOSES

HOSE RECOMMENDATIONS

DESCRIPTION	EFFI MAX	POLYURETHAN	RUBBER
Flexibility	++	++	+
Lightweigth	++	++	+
Outdoor	+++	+	+++
Spark resistant	+++	-	+++
Rough environment	+++	++	+++
Antistatic	+++	-	+++
Temperature range	-40 to +194F° -40 to +90°C	-22 to +176F° -30 to +80°C	-40 to +194F° -40 to +90°C

At recommended air flow the pressure drop is 0.2 bar (2.9 PSI) with a hose length of 5m (16ft).
Recommendation is to upgrade one size in diameter for every 10m (32.8ft) of hose length

EFFI Series

EFFI is a unique premium line of hoses designed with special features such as antistatic, extreme low weight, resistance and durability that will help the operator to maximize the tool productivity.

EFFI MAX HOSES

Aimed to generic grinding applications
- Exteme low weight
- Antistatic
- Rubber hose
- Soft and flexible
- Welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 20M / 65.6FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	9.5x12.5	65.6	20		27.6	13	6.4	2.9	**894 016 992 1**
1/2	13x18.6	65.6	20	232 (16)	44.5	21	8.6	3.9	**615 810 900 0**
5/8	16x22.5	65.6	20	232 (16)	91.1	43	10.6	4.8	**615 810 901 0**
3/4	20x26.1	65.6	20	232 (16)	159	75	11.9	5.4	**615 810 902 0**

RUBBER HOSES

Aimed to the most demanding tasks in constru
n, mining, shipyards, foundries etc.
- Durable
- Antistatic
- Grinding and welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 20M / 65.6FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	10x16	65.6	20	232 (16)	27.5	13	7.9	3.6	**615 810 864 0**
1/2	12.5x19.1	65.6	20	232 (16)	44.5	21	10.4	4.7	**615 810 865 0**
5/8	16x23	65.6	20	232 (16)	91.1	43	13.4	6.1	**615 810 866 0**
3/4	20x26.6	65.6	20	232 (16)	159	75	17.2	7.8	**615 810 868 0**
1	25x34	65.6	20	232 (16)	265	125	26.0	11.8	**615 810 870 0**

POLYURETHANE HOSES

Aimed to heavy duty applications for indoor and use
- Oil resistant
- Flexible
- Long service life
- PVC free: Environment friendly



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 25M / 82FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/4	6.5x10	82	25	290 (20)	8.5	4.0	2.9	1.3	**615 804 623 0**
5/16	8x12	82	25	290 (20)	15.9	7.5	4.8	2.2	**615 804 624 0**
3/8	9.5x13	82	25	232 (16)	27.5	13.0	5.5	2.5	**615 804 625 0**
1/2	13x18	82	25	188 (13)	44.5	21.0	8.8	4.0	**615 804 626 0**

** With a safety factor of 37.4 psi at 68F° (3 bar at 20°C)*
(at the max temp of +140F° (+60°C) the working pressure should be reduced by 50%

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HOSE KITS

Hose kits are equipped with end thread fittings and available in short length, ready to connect and ready to use.



DIMENSIONS (IDxOD)		MALE	LENGHT		PART NUMBER		HOSE MATERIAL
in. ID	mm	in.	ft	m	NPT	BSP	
1/4	6.5x10	1/4	26.2	8	**615 811 213 0**	**615 804 627 0**	**PU**
5/16	8x12	1/4	26.2	8	**615 811 214 0**	**615 804 628 0**	**PU**
3/8	10x13	1/4	26.2	8		**615 804 629 0**	**PU**
3/8	10x13	3/8	26.2	8	**615 811 240 0**	**615 811 238 0**	**PU**
1/2	13x18	1/2	26.2	8	**615 811 216 0**	**615 804 630 0**	**PU**
1/2	13x18	3/8	26.2	8	**615 811 241 0**	**615 811 239 0**	**PU**
5/8	16x23	1/2	26.2	8	**615 811 268 0**	**615 811 267 0**	**Rubber**

EFFI MAX WHIPS

Always use a hose whip between the tool and the air supply hose.
It provides safety and longer tool air inlet life.

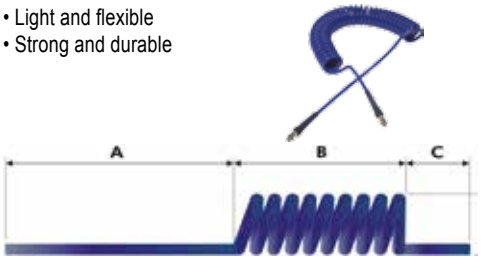


HOSE DIAM.		THREAD SIZE	HOSE LENGHT		PART NUMBER	
in.	mm	in.	ft	m	NPT	BSP
1/4	6.5	1/4	2.0	0.6		
3/8	10	1/4	2.0	0.6	**CA047270**	**615 811 192 0**
1/2	13	3/8	2.0	0.6	**CA049271**	**615 811 264 0**
1/2	13	1/2	2.0	0.6	**CA049270**	**615 811 193 0**
5/8	16	1/2	2.0	0.6	**615 811 266 0**	**615 811 265 0**

POLYURETHANE SPIRAL HOSE

Spiral hose are especially adapted for tools used at varying distances. Vertically or horizontally, together with a balancer spiral hose, it is a step forward in ergonomics. Equipped with ball bearing at one end (except the 11x16), they can be directly connected at the tool outlet, avoiding the hose to twist

- Self retractable
- Light and flexible
- Strong and durable



DIMENSIONS (IDxOD)		MALE THREADS	WORKING LENGTH		LENGHT A	LENGHT B	LENGHT C	PARTNUMBER	
in. ID	mm	in.	ft	m	in. (mm)	in. (mm)	in. (mm)	NPT	BSP
1/4	6.5x10	1/4	6.6	2	19.7 (500)	5.5 (140)	5.9 (150)	**615 810 967 0**	**615 804 635 0**
1/4	6.5x10	1/4	13.1	4	19.7 (500)	13 (330)	5.9 (150)	**615 810 968 0**	**615 804 636 0**
1/4	6.5x10	1/4	19.7	6	19.7 (500)	20.1 (510)	5.9 (150)	**615 810 969 0**	**615 804 637 0**
1/4	6.5x10	1/4	26.2	8	19.7 (500)	27.6 (700)	5.9 (150)	**615 810 970 0**	**615 804 638 0**
5/16	8x12	3/8	6.6	2	19.7 (500)	5.1 (130)	5.9 (150)	**615 810 971 0**	**615 804 639 0**
5/16	8x12	3/8	13.1	4	19.7 (500)	11.8 (300)	5.9 (150)	**615 810 972 0**	**615 804 640 0**
5/16	8x12	3/8	19.7	6	19.7 (500)	18.1 (460)	5.9 (150)	**615 810 973 0**	**615 804 641 0**
5/16	8x12	3/8	26.2	8	19.7 (500)	24.8 (630)	5.9 (150)	**615 810 974 0**	**615 804 642 0**
7/16	11x16	3/8	6.6	2	19.7 (500)	4.7 (120)	5.9 (150)	**615 810 975 0**	**615 804 643 0**
7/16	11x16	3/8	13.1	4	19.7 (500)	10.6 (270)	5.9 (150)	**615 810 976 0**	**615 804 644 0**
7/16	11x16	3/8	19.7	6	19.7 (500)	16.5 (420)	5.9 (150)	**615 810 977 0**	**615 804 645 0**
7/16	11x16	3/8	26.2	8	19.7 (500)	22.4 (570)	5.9 (150)	**615 810 978 0**	**615 804 646 0**

AIR FLEX RANGE



THE NEW AIR FLEX MAKES ALL RIGID HOSES FLEXIBLE AND MULTI-DIRECTIONAL.

Easy: less effort due to hose rigidity, makes work easier in hard to reach areas.Less wear: no more premature hose wear. Comfort and safety: no twisting, the hose remains in the ideal working position and lower the risk of tendinitis.

AIR FLEX

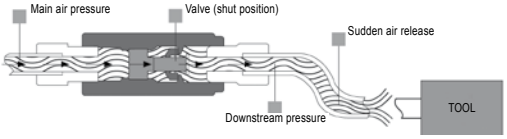
Aimed to improve the working ergonomy, Air flex connectors can rotate 360° eliminating efforts when working in cramped spaces

MULTI DIRECTION SWIVEL CONNECTOR	MAX RECOMMENDED FLOW		LENGTH		PART NUMBER		
	cfm	l/s	mm	in.	BSP	NPT	R
Air Flex 1/4”	25	12	67	2.63	**615 804 746 0**	**615 804 747 0**	**615 995 559 0**
Air Flex 3/8”	74	35	82	3.23	**615 804 748 0**	**615 804 749 0**	**615 995 557 0**
Air Flex 1/2”	74	35	82	3.23	**615 804 750 0**	**615 804 751 0**	**615 995 558 0**
Air Flex 1/4” with cover	25	12	67	2.63	**615 810 046 0**	**615 811 375 0**	

AIR FUSES



MATERIALS	
Body	Anodised aluminium
Internal parts	Brass
Spring	Stainless steel



When a fitting comes loose from a pressurized hose or the hose is damaged, the hose starts to blow an excessive amount of air in an uncontrolled way, causing hose whip. This can cause injury, and damage to the workpiece and environment.A way to ensure that this doesn’t happen is to use an Air Fuse

It reduces the likelihood of potentially dangerous hose whip caused when a hose bursts or a fitting becomes detached. It quickly shuts off the supply and resets automatically as soon as back pressure in the line downstream is restored. Air Fuses help to meet OSHA requirement 1926.302 (USA) and may eliminate the need for restraining or shielding hose, as required by European Standard EN983.

- Reduces risk of hose whip, helping to protect personnel
- Simple and reliable design
- High life expectancy
- Aluminium anodised body for high corrosion resistance
- Auto-Reset to restart downstream activity with the minimum downtime

PORT SIZE	PRESSURE DROP AT SHUT OFF FLOW		SHUT OFF FLOW RATE AT 7 BAR		TOOL MAXIMUM AIR FLOW		FOR FLOW RATES	PART NUMBER	
in.	bar	psi	l/s	cfm	l/s	cfm		BSP	NPT
1/4	0.14	2.03	7.8	16.4	5	10.5	Low	**615 811 242 0**	**615 811 245 0**
1/4	0.30	4.35	13	27.3	10	21.0	High		**615 811 246 0**
3/8	0.14	2.03	18	37.8	10	21.0	Low	**110422**	**615 811 247 0**
3/8	0.30	4.35	32	67.2	25	52.5	High	**110432**	**615 811 248 0**
1/2	0.30	4.35	45	94.5	35	73.5	High	**110442**	
3/4	0.30	4.35	75	157.5	60	126.0	High	**615 811 243 0**	**615 811 250 0**
1	0.30	4.35	86	180.6	70	147.0	High	**615 811 244 0**	

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Fastening accessories

Fastener Head Type	Drivers	Output
POZIDRIV/SUPADRIV	4mm Wing Shank	Exx — TORX SOCKET SIZE XX
PHILLIPS	5mm Wing Shank	SWxx — SOCKET SIZE XX
TORX	4mm Halfmoon	T — TORX SIZE XX
TORX TAMPER PROOF	1/4" Hex** Insert (C6.3) (ISO1173/ DIN3126)	INxx — HEX BIT SIZE XX
TORX PLUS	1/4" Hex Power Drive (E6.3) (ISO1173/ DIN3126)	XZNxx — TORX 12 BIT SIZE XX
INTERNAL HEX	5/16" Hex Power Drive	
EXTERNAL HEX	3mm Hex Power Drive (A3) (ISO1173)	
SLOT	Thread Drive	
TRI-WING	Square Drive	

*** Note*: to be used with a bit holder*

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ACR®, Pozidriv®, Torq-Set®, Tri-Wing® are registered trademarks of Phillips Screw Co.

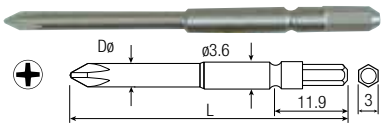
We can propose today a high quality range of bits and sockets with the latest Technology Support and Quality controls.



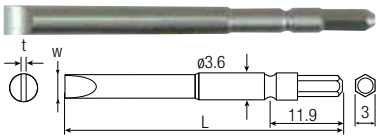
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Bits for precision screw

Drive: ø 3mm Hex drive

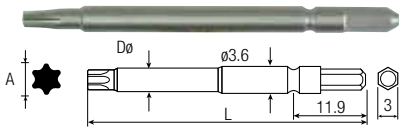


PH	D ø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
00	2.5	0.10	50	1.97	**615 820 226 0**
0	2.5	0.10	50	1.97	**615 820 227 0**
1	4.0	0.16	50	1.97	**615 820 228 0**

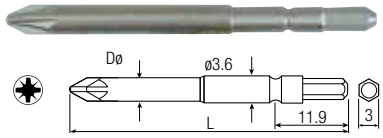


W	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
2.5	0.4	0.02	50	1.97	**615 820 231 0**
3	0.5	0.02	50	1.97	**615 820 232 0***
4	0.5	0.02	50	1.97	**615 820 233 0**
4	0.8	0.03	50	1.97	**615 820 236 0**

* Production upon your order.

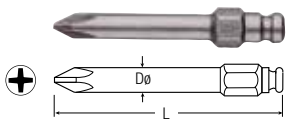


T	A		Dø		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
T6	1.7	0.06	2.2	0.09	50	1.97	**615 820 240 0**
T10	2.7	0.11	3.0	0.12	50	1.97	**615 820 243 0**

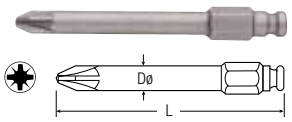


PZ	D ø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
0	3	0.12	50	1.97	**615 820 238 0**
1	4	0.16	50	1.97	**615 820 239 0**

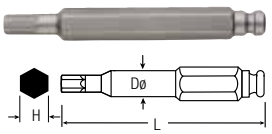
Drive: 5/16” = 8mm Hex drive



PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.5	0.18	50	1.97	**615 820 645 0**
2	6.0	0.24	50	1.97	**615 820 646 0**
2	-	-	93	3.66	**615 820 721 0**
3	-	-	93	3.66	**615 820 722 0**



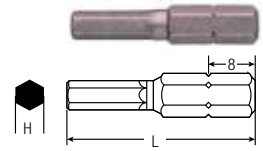
PZ	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	-	-	92	3.62	**615 820 724 0**
2	6.0	0.24	50	1.97	**615 820 647 0**
2	6.0	0.24	92	3.62	**615 820 355 0**



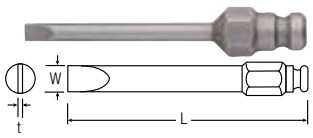
H	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
H3	6.0	0.24	50	1.97	**615 820 327 0***
H4	6.0	0.24	50	1.97	**615 820 328 0***
H5	8.0	0.31	50	1.97	**615 820 329 0**
H6	8.0	0.31	50	1.97	**615 820 330 0**
H8	8.0	0.31	50	1.97	**615 820 331 0***

* Production upon your order.

Drive: 11mm Hex drive



H	LENGTH L		PART NO
	mm	in	10 pcs
H6	70	2.76	**615 820 650 0**

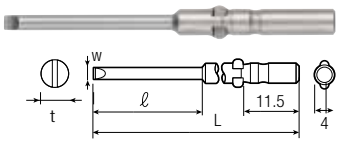


W	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
3	0.5	0.02	76	2.99	**615 820 209 0**
3.7	0.8	0.03	52	2.05	**615 820 725 0**
8.8	1.3	0.05	52	2.05	**615 820 728 0**

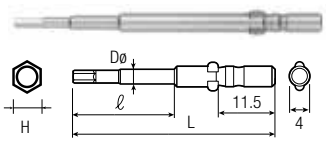
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Bits for precision screw

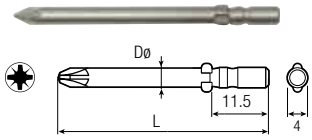
Drive: ø 4mm shank drive - Wing shank



W	t		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
2	0.3	0.01	20	0.79	40	1.57	SLB001	615 820 423 0
2.5	0.3	0.01	20	0.79	40	1.57	SLB001	615 820 424 0
3	0.4	0.02	20	0.79	40	1.57	SLB001	615 820 048 0
4	0.5	0.02	-	-	40	1.57	SLB001	615 820 425 0

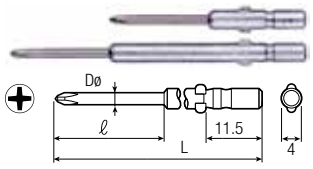


H	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
H1.5	2	0.08	20	0.79	60	2.36	SLB001	615 820 426 0
H2	3	0.12	20	0.79	60	2.36	SLB001	615 820 427 0
H2.5	3	0.12	20	0.79	60	2.36	SLB001	615 820 428 0
H3	4	0.16	-	-	60	2.36	SLB001	615 820 429 0



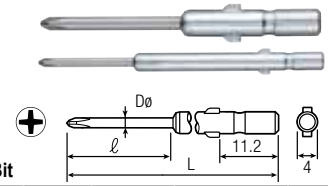
PZ	Dø		LENGTH L		TOOLS	PART NO
	mm	in	mm	in		10 pcs
0	4	0.16	60	2.36	SLB001	615 820 369 0
1	4	0.16	60	2.36	SLB001	615 820 370 0
2	4	0.16	60	2.36	SLB001	615 820 383 0

Drive: ø 4mm shank drive - Wing shank



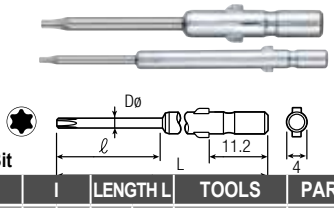
PH	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
00	1.2	0.05	20	0.79	40	1.57	ERXS / SLB001	615 820 027 0
00	1.5	0.06	20	0.79	40	1.57	ERXS / SLB001	615 820 412 0
00	1.5	0.06	20	0.79	60	2.36	SLB001	615 820 413 0
00	2.0	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 414 0
00	2.0	0.08	20	0.79	60	2.36	SLB001	615 820 415 0
0	1.4	0.06	20	0.79	40	1.57	ERXS / SLB001	615 820 028 0
0	1.4	0.06	20	0.79	60	2.36	SLB001	615 820 029 0
0	1.7	0.07	20	0.79	40	1.57	ERXS / SLB001	615 820 416 0
0	1.7	0.07	20	0.79	60	2.36	ERXS / SLB001	615 820 417 0
0	2.0	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 030 0
0	2.0	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 031 0
0	2.0	0.08	20	0.79	80	3.15	ERXS / SLB001	615 820 032 0
0	2.0	0.08	20	0.79	100	3.94	SLB001	615 820 033 0
0	2.5	0.10	20	0.79	40	1.57	ERXS / SLB001	615 820 418 0
0	2.5	0.10	20	0.79	60	2.36	ERXS / SLB001	615 820 419 0
0	2.5	0.10	20	0.79	80	3.15	SLB001	615 820 034 0
0	2.5	0.10	20	0.79	100	3.94	SLB001	615 820 035 0
1	3.0	0.12	20	0.79	40	1.57	SLB001	615 820 420 0
1	3.0	0.12	20	0.79	60	2.36	ERXS / SLB001	615 820 036 0
1	3.0	0.12	20	0.79	80	3.15	SLB001	615 820 037 0
1	3.0	0.12	20	0.79	100	3.94	SLB001	615 820 038 0
1	3.0	0.12	20	0.79	120	4.72	SLB001	615 820 442 0
1	4.0	0.16	-	-	40	1.57	SLB001	615 820 421 0
1	4.0	0.16	-	-	60	2.36	SLB001	615 820 039 0
1.3	0.3	0.01	20	0.79	40	1.57	ERXS / SLB001	615 820 044 0
1.7	0.3	0.01	20	0.79	40	1.57	ERXS / SLB001	615 820 045 0
2	0.4	0.02	20	0.79	40	1.57	ERXS / SLB001	615 820 046 0
2	4.0	0.16	-	-	40	1.57	SLB001	615 820 422 0
2	4.0	0.16	-	-	60	2.36	ERXS / SLB001	615 820 040 0
2	4.0	0.16	-	-	80	3.15	SLB001	615 820 041 0
2	4.0	0.16	-	-	100	3.94	SLB001	615 820 042 0
2	4.0	0.16	-	-	120	4.72	SLB001	615 820 043 0
2.5	0.4	0.02	20	0.79	40	1.57	ERXS / SLB001	615 820 047 0

Shockless Bit

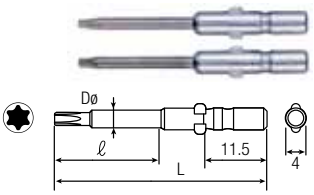


PH	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
00	1.5	0.06	20	0.79	40	1.57	ERXS / SLB001	615 820 390 0
00	1.5	0.06	20	0.79	60	2.36	ERXS / SLB001	615 820 391 0
0	1.5	0.06	20	0.79	40	1.57	ERXS / SLB001	615 820 392 0
0	1.5	0.06	20	0.79	60	2.36	ERXS / SLB001	615 820 393 0
0	1.7	0.07	20	0.79	40	1.57	ERXS / SLB001	615 820 394 0
0	1.7	0.07	20	0.79	60	2.36	ERXS / SLB001	615 820 395 0
0	2	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 396 0
0	2	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 397 0

Shockless Bit

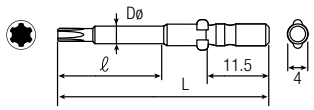


T	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
T5	2	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 398 0
T5	2	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 399 0
T6	2	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 400 0
T6	2	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 401 0



T	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
T1	1.5	0.06	20	0.79	40	1.57	SLB001	615 820 670 0
T2	1.5	0.06	20	0.79	40	1.57	SLB001	615 820 671 0
T3	1.7	0.07	20	0.79	40	1.57	SLB001	615 820 672 0
T4	1.8	0.07	20	0.79	40	1.57	ERXS / SLB001	615 820 673 0
T5	2.0	0.08	20	0.79	40	1.57	SLB001	615 820 049 0
T5	2.0	0.08	20	0.79	60	2.36	SLB001	615 820 050 0
T6	2.0	0.08	20	0.79	40	1.57	ERXS / SLB001	615 820 051 0
T6	2.0	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 052 0
T7	2.0	0.08	20	0.79	60	2.36	SLB001	615 820 053 0
T8	3.0	0.12	20	0.79	40	1.57	SLB001	615 820 674 0
T8H	4.0	0.16	-	-	60	2.36	SLB001	615 820 054 0
T9	3.0	0.12	20	0.79	40	1.57	ERXS / SLB001	615 820 675 0
T10	3.0	0.12	20	0.79	40	1.57	ERXS / SLB001	615 820 676 0
T10H	4.0	0.16	-	-	60	2.36	ERXS / SLB001	615 820 055 0

Torx Plus



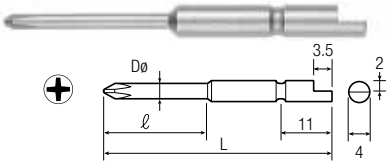
IP	Dø		l		LENGTH L		TOOLS	PART NO
	mm	in	mm	in	mm	in		10 pcs
4IP	1.8	0.07	20	0.79	60	2.36	ERXS / SLB001	615 820 371 0
5IP	2.0	0.08	20	0.79	60	2.36	ERXS / SLB001	615 820 372 0
6IP	2.5	0.10	20	0.79	60	2.36	ERXS / SLB001	615 820 373 0
8IP	3.0	0.12	20	0.79	60	2.36	ERXS / SLB001	615 820 374 0
10IP	3.0	0.12	20	0.79	60	2.36	ERXS / SLB001	615 820 375 0

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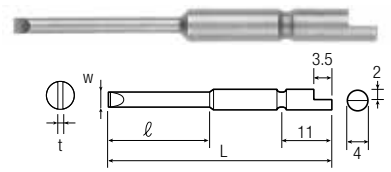
Bits for precision screw

Drive: ø 4mm - Halfmoon

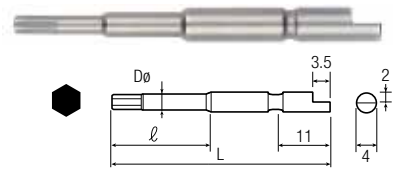




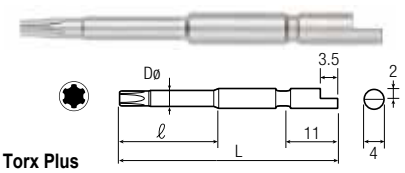
PH	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
000	1.5	0.06	20	0.79	44	1.73	615 820 386 0
000	1.5	0.06	20	0.79	64	2.52	615 820 389 0
00	1.5	0.06	20	0.79	44	1.73	615 820 406 0
00	1.5	0.06	20	0.79	64	2.52	615 820 407 0
00	2.0	0.08	20	0.79	64	2.52	615 820 078 0
0	1.8	0.07	20	0.79	44	1.73	615 820 076 0
0	1.8	0.07	20	0.79	64	2.52	615 820 077 0
0	2.0	0.08	20	0.79	44	1.73	615 820 408 0
0	2.0	0.08	20	0.79	64	2.52	615 820 409 0
0	2.5	0.10	20	0.79	44	1.73	615 820 079 0
0	2.5	0.10	20	0.79	64	2.52	615 820 080 0
1	3.0	0.12	20	0.79	44	1.73	615 820 410 0
1	3.0	0.12	20	0.79	64	2.52	615 820 411 0
1	4.0	0.16	20	0.79	44	1.73	615 820 081 0
1	4.0	0.16	20	0.79	64	2.52	615 820 082 0
2	4.0	0.16	20	0.79	44	1.73	615 820 083 0
2	4.0	0.16	20	0.79	64	2.52	615 820 084 0



w	t		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
2	0.3	0.01	20	0.79	44	1.73	615 820 086 0
2.5	0.3	0.01	20	0.79	44	1.73	615 820 087 0
3	0.4	0.02	20	0.79	44	1.73	615 820 088 0
4	0.5	0.02	-	-	44	1.73	615 820 089 0

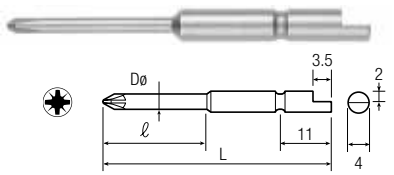


H	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
H1.5	2.0	0.08	20	0.79	44	1.73	615 820 091 0
H2	3.0	0.12	20	0.79	44	1.73	615 820 092 0
H2.5	3.0	0.12	20	0.79	44	1.73	615 820 093 0
H3	4.0	0.16	-	-	44	1.73	615 820 094 0

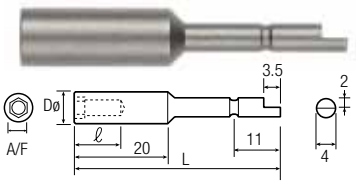


Torx Plus

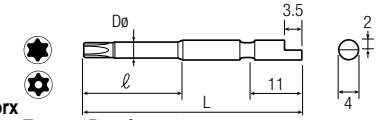
IP	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
2IP	1.5	0.06	20	0.79	44	1.73	615 820 381 0
2IP	1.5	0.06	20	0.79	64	2.52	615 820 367 0
3IP	1.7	0.07	20	0.79	44	1.73	615 820 382 0
3IP	1.7	0.07	20	0.79	64	2.52	615 820 368 0
4IP	1.8	0.07	20	0.79	44	1.73	615 820 357 0
4IP	1.8	0.07	20	0.79	64	2.52	615 820 358 0
5IP	2.0	0.08	20	0.79	44	1.73	615 820 359 0
5IP	2.0	0.08	20	0.79	64	2.52	615 820 360 0
6IP	2.5	0.10	20	0.79	44	1.73	615 820 361 0
6IP	2.5	0.10	20	0.79	64	2.52	615 820 362 0
8IP	3.0	0.12	20	0.79	44	1.73	615 820 363 0
8IP	3.0	0.12	20	0.79	64	2.52	615 820 364 0
10IP	3.0	0.12	20	0.79	44	1.73	615 820 365 0
10IP	3.0	0.12	20	0.79	64	2.52	615 820 366 0



PZ	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
0	2.5	0.10	20	0.79	44	1.73	615 820 377 0
0	2.5	0.10	20	0.79	64	2.52	615 820 378 0
1	4.0	0.16	-	-	44	1.73	615 820 379 0
1	4.0	0.16	-	-	64	2.52	615 820 380 0



AF	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
A/F2.3	4.0	0.16	5	0.20	44	1.73	615 820 095 0
A/F2.5	4.0	0.16	5	0.20	44	1.73	615 820 096 0
A/F3	5.0	0.20	8	0.31	44	1.73	615 820 097 0
A/F4	7.0	0.28	10	0.39	44	1.73	615 820 098 0
A/F4.5	7.0	0.28	10	0.39	44	1.73	615 820 099 0
A/F5	8.0	0.31	15	0.59	44	1.73	615 820 100 0
A/F5.5	8.0	0.31	15	0.59	44	1.73	615 820 101 0



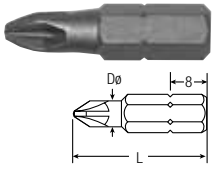
Torx
Torx Tamper Proof

T	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
T1	1.5	0.06	20	0.79	44	1.73	615 820 663 0
T2	1.5	0.06	20	0.79	44	1.73	615 820 664 0
T3	1.7	0.07	20	0.79	44	1.73	615 820 665 0
T4	1.8	0.07	20	0.79	44	1.73	615 820 666 0
T5	2.0	0.08	20	0.79	44	1.73	615 820 102 0
T5	2.0	0.08	20	0.79	64	2.52	615 820 103 0
T6	2.0	0.08	20	0.79	44	1.73	615 820 104 0
T6	2.0	0.08	20	0.79	64	2.52	615 820 105 0
T8	3.0	0.12	20	0.79	44	1.73	615 820 668 0
T8H	3.0	0.12	20	0.79	44	1.73	615 820 106 0
T8H	3.0	0.12	20	0.79	64	2.52	615 820 107 0
T9	3.0	0.12	20	0.79	44	1.73	615 820 669 0
T10H	3.0	0.12	20	0.79	44	1.73	615 820 108 0
T10H	3.0	0.12	20	0.79	64	2.52	615 820 109 0
T15H	4.0	0.16	20	0.79	64	2.52	615 820 110 0

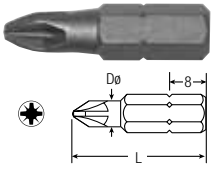
Insert bits

Drive: 1/4" = 6.35mm
Hex shank DIN3126-C6.3

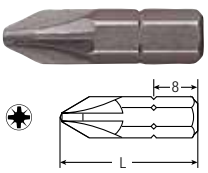




PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.5	0.18	50.0	1.97	615 820 687 0
2	6.0	0.24	25.4	1.00	615 820 518 0
2	6.0	0.24	50.0	1.97	615 820 688 0



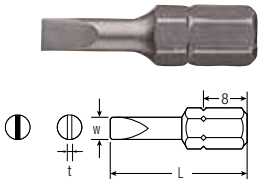
PZ	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.5	0.18	25.0	0.98	615 820 690 0
2	6.0	0.24	25.0	0.98	615 820 450 0
2	6.0	0.24	50.0	1.97	615 820 694 0
3	6.0	0.24	25.0	0.98	615 820 693 0



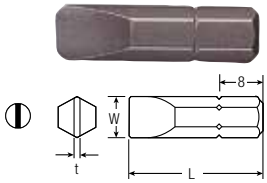
PZ	LENGTH L		PART NO
	mm	in	10 pcs
1	25.4	1.00	615 820 449 0
2	25.4	1.00	615 820 450 0
2	50.0	1.97	615 820 521 0
3	50.0	1.97	615 820 522 0

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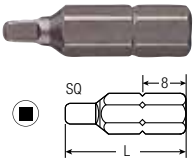
Drive: 1/4” = 6.35mm
Hex shank DIN3126-C6.3



w	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
4	0.6	0.02	25.0	0.98	**615 820 531 0**
5	0.8	0.03	25.0	0.98	**615 820 532 0**

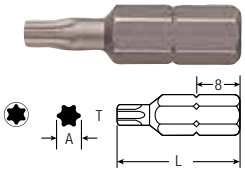


w	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
4.76	0.9	0.03	25.4	1.00	**615 820 452 0**
5.55	1.0	0.04	25.4	1.00	**615 820 453 0**
6.35	1.1	0.04	25.4	1.00	**615 820 454 0**
7.14	1.2	0.05	25.4	1.00	**615 820 455 0**
7.93	1.3	0.05	25.4	1.00	**615 820 456 0**

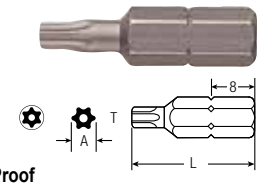


SQ	LENGTH L		PART NO
	mm	in	10 pcs
1 (3/32”)	25.4	1.00	**615 820 461 0***
2 (1/8”)	25.4	1.00	**615 820 462 0**
3 (9/64”)	25.4	1.00	**615 820 463 0**

* Production upon your order.



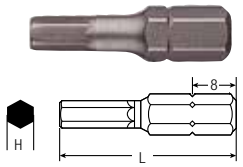
T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
T3	1.1	0.04	25.0	0.98	**615 820 686 0**
T5	1.4	0.05	25.0	0.98	**615 820 537 0**
T6	1.7	0.06	25.0	0.98	**615 820 538 0**
T7	2.0	0.08	25.0	0.98	**615 820 539 0**
T8	2.3	0.09	25.0	0.98	**615 820 540 0**
T9	2.5	0.10	25.0	0.98	**615 820 541 0**
T10	2.7	0.11	25.0	0.98	**615 820 542 0**
T15	3.3	0.13	25.0	0.98	**615 820 543 0**
T20	3.8	0.15	25.0	0.98	**615 820 544 0**
T25	4.4	0.17	25.0	0.98	**615 820 545 0**
T27	5.0	0.20	25.0	0.98	**615 820 546 0**
T30	5.5	0.22	25.0	0.98	**615 820 547 0**
T40	6.6	0.26	25.0	0.98	**615 820 548 0**



Torx Tamper Proof

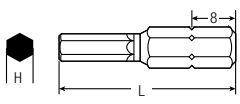
T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
T10H	2.7	0.11	25.0	0.98	**615 820 549 0**
T20H	3.8	0.15	25.0	0.98	**615 820 551 0**
T25H	4.4	0.17	25.0	0.98	**615 820 552 0**
T27H	5.0	0.20	25.0	0.98	**615 820 553 0***

* Production upon your order.

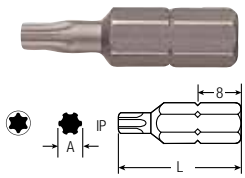


H	LENGTH L		PART NO
	mm	in	10 pcs
H1.5	25.0	0.98	**615 820 523 0**
H2	25.0	0.98	**615 820 524 0**
H2.5	25.0	0.98	**615 820 525 0**
H3	25.0	0.98	**615 820 526 0**
H4	25.0	0.98	**615 820 527 0**
H5	25.0	0.98	**615 820 528 0**
H6	25.0	0.98	**615 820 529 0**
H8	25.0	0.98	**615 820 530 0**

Drive: 5/16” = 8mm Hex.
DIN3126-C8

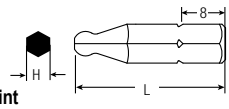


H	LENGTH L		PART NO
	mm	in	10 pcs
H5	34.0	1.34	**615 820 533 0**
H6	34.0	1.34	**615 820 534 0**



Torx Plus

IP	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
6IP	1.7	0.06	25.0	0.98	**615 820 257 0**
8IP	2.3	0.09	25.0	0.98	**615 820 258 0**
10IP	2.7	0.11	25.0	0.98	**615 820 259 0**
15IP	3.3	0.13	25.0	0.98	**615 820 260 0**
20IP	3.8	0.15	25.0	0.98	**615 820 261 0**
25IP	4.4	0.17	25.0	0.98	**615 820 262 0**
30IP	5.5	0.22	25.0	0.98	**615 820 263 0**
40IP	6.6	0.26	25.4	1.00	**615 820 264 0**



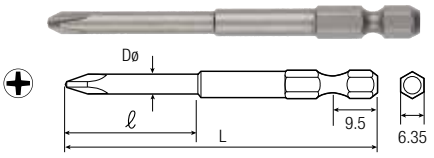
Ball Point

H	LENGTH L		PART NO
	mm	in	10 pcs
H2	25.0	0.98	**615 820 114 0**
H2.5	25.0	0.98	**615 820 115 0**
H3	25.0	0.98	**615 820 116 0**
H4	25.0	0.98	**615 820 117 0**
H5	25.0	0.98	**615 820 118 0**
H6	25.0	0.98	**615 820 119 0**
H8	25.0	0.98	**615 820 120 0**

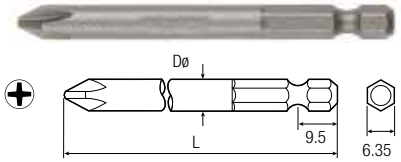
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Power bits

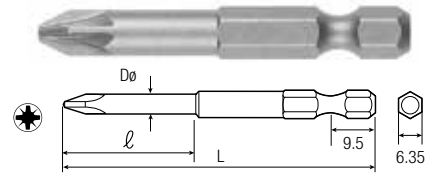
Drive: 1/4" = 6.35mm
Hex drive - DIN3126-E6.3



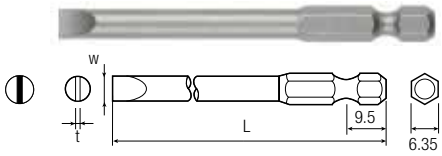
PH	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
00	1.2	0.05	20	0.8	60	2.4	615 820 056 0
00	1.6	0.06	-	-	49	1.9	615 820 125 0
00	1.6	0.06	-	-	70	2.8	615 820 348 0
00	1.5	0.06	20	0.8	60	2.4	615 820 057 0
00	1.7	0.07	20	0.8	60	2.4	615 820 058 0
00	2	0.08	40	1.57	60	2.36	615 820 059 0
0	1.4	0.06	30	1.2	60	2.4	615 820 061 0
0	1.7	0.07	40	1.6	80	3.1	615 820 064 0
0	2.5	0.10	20	0.8	60	2.4	615 820 067 0
0	2.5	0.10	30	1.2	100	3.9	615 820 068 0
0	3.0	0.12	20	0.8	60	2.4	615 820 069 0
0	3.0	0.12	30	1.2	100	3.9	615 820 070 0
0	3.2	0.12	-	-	49	1.9	615 820 464 0



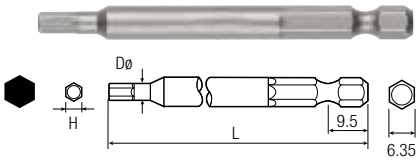
PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.8	0.19	49	1.93	615 820 465 0
1	4.76	0.19	70	2.76	615 820 466 0
1	4.76	0.19	89	3.50	615 820 467 0
1	4.5	0.18	150	5.91	615 820 659 0
1	4.76	0.19	152	5.98	615 820 468 0
2	4.76	0.19	49	1.93	615 820 126 0
2	6.35	0.25	49	1.93	615 820 469 0
2	6.35	0.25	70	2.76	615 820 470 0
2	6.35	0.25	89	3.50	615 820 471 0
2	6.0	0.24	100	3.94	615 820 561 0
2	6.0	0.24	127	5.00	615 820 127 0
2	6.0	0.24	150	5.91	615 820 660 0
2	6.35	0.25	152	5.98	615 820 472 0
2	6.0	0.24	200	7.87	615 820 129 0
3	7.9	0.31	70	2.76	615 820 474 0
3	7.9	0.31	89	3.50	615 820 475 0
3	8.0	0.31	100	3.94	615 820 562 0
3	8.0	0.31	150	5.91	615 820 128 0



PZ	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
0	3.17	0.12	-	-	70	2.76	615 820 314 0
0	2.00	0.08	20	0.79	60	2.36	615 820 715 0
0	3.00	0.12	20	0.79	60	2.36	615 820 716 0
0	2.0	0.08	30	1.18	100	3.94	615 820 322 0
1	4.76	0.19	-	-	49	1.93	615 820 131 0
1	4.76	0.19	-	-	70	2.76	615 820 352 0
1	4.76	0.19	50	1.97	75	2.95	615 820 486 0
1	4.76	0.19	-	-	89	3.50	615 820 478 0
1	4.50	0.18	-	-	100	3.94	615 820 483 0
1	4.76	0.19	80	3.15	110	4.33	615 820 484 0
1	4.76	0.19	50	1.97	152	5.98	615 820 481 0
2	6.35	0.25	-	-	49	1.93	615 820 311 0
2	6.0	0.24	22	0.87	50	1.97	615 820 712 0
2	6.35	0.25	-	-	70	2.76	615 820 476 0
2	6.35	0.25	-	-	89	3.50	615 820 479 0
2	6.0	0.24	-	-	100	3.94	615 820 558 0
2	6.0	0.24	-	-	150	5.91	615 820 661 0
2	6.35	0.25	50	1.97	152	5.98	615 820 482 0
2	6.0	0.24	-	-	200	7.87	615 820 711 0
3	6.0	0.24	80	3.15	110	4.33	615 820 713 0
4	8.0	0.31	-	-	51	2.01	615 820 714 0
4	8.0	0.31	-	-	75	2.99	615 820 559 0



W	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
3.0	0.50	0.02	51	2.01	615 820 566 0
3.4	0.66	0.03	70	2.76	615 820 135 0
3.8	0.76	0.03	76	2.99	615 820 137 0
4.0	0.60	0.02	51	2.01	615 820 567 0
4.75	0.86	0.03	76	2.99	615 820 138 0
5.5	0.80	0.03	51	2.01	615 820 568 0
6.35	0.91	0.04	49	1.93	615 820 489 0
3.1	0.56	0.02	102	4.02	615 820 144 0
3.1	0.56	0.02	76	2.99	615 820 136 0
3.1	0.56	0.02	49	1.93	615 820 132 0
9.1	1.27	0.05	102	4.02	615 820 152 0
4.75	0.86	0.03	102	4.02	615 820 147 0
3.8	0.55	0.02	102	4.02	615 820 146 0
3.4	1.27	0.05	102	4.02	615 820 145 0
9.1	1.17	0.05	76	2.99	615 820 143 0
7.9	1.067	0.04	76	2.99	615 820 142 0
6.98	0.96	0.04	76	2.99	615 820 141 0
5.46	0.91	0.04	76	2.99	615 820 140 0
5.46	1.27	0.05	76	2.99	615 820 139 0
9.1	1.17	0.05	49	1.93	615 820 493 0
7.9	1.067	0.04	49	1.93	615 820 492 0
6.98	0.96	0.04	49	1.93	615 820 491 0
6.35	0.91	0.04	49	1.93	615 820 490 0
5.46	0.86	0.03	49	1.93	615 820 488 0
3.8	0.55	0.02	49	1.93	615 820 134 0
3.4	0.66	0.03	49	1.93	615 820 133 0

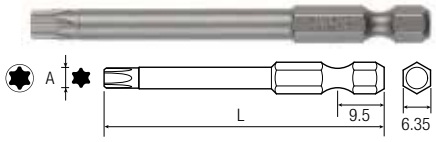


H	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
H2	7.0	0.28	75	2.95	615 820 001 0
H2	7.0	0.28	100	3.94	615 820 002 0
H2	3.5	0.14	49	1.93	615 820 353 0
H2.5	7.0	0.28	75	2.95	615 820 003 0
H2.5	7.0	0.28	100	3.94	615 820 004 0
H2.5	7.0	0.28	150	5.91	615 820 014 0
H2.5	3.5	0.14	49	1.93	615 820 495 0
H3	3.5	0.14	49	1.93	615 820 496 0
H3	7.0	0.28	75	2.95	615 820 005 0
H3	7.0	0.28	100	3.94	615 820 006 0
H3	7.0	0.28	150	5.91	615 820 015 0
H4	4.6	0.18	49	1.93	615 820 497 0
H4	7.0	0.28	75	2.95	615 820 007 0
H4	7.0	0.28	100	3.94	615 820 008 0
H4	7.0	0.28	150	5.91	615 820 016 0
H5	5.8	0.23	49	1.93	615 820 498 0
H5	7.0	0.28	75	2.95	615 820 009 0
H5	7.0	0.28	100	3.94	615 820 010 0
H5	7.0	0.28	150	5.91	615 820 017 0

H	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
H6	-	-	49	1.93	615 820 499 0
H6	7.0	0.28	75	2.95	615 820 011 0
H6	7.0	0.28	100	3.94	615 820 012 0
H6	7.0	0.28	150	5.91	615 820 018 0
H7	10	0.39	70	2.76	615 820 569 0
H8	-	-	49	1.93	615 820 315 0
H8	10	0.39	70	2.76	615 820 570 0
H8	10	0.39	150	5.91	615 820 019 0
H9	11	0.43	70	2.76	615 820 571 0
H10	-	-	49	1.93	615 820 354 0
H10	12	0.47	70	2.76	615 820 572 0
H1/4"	-	-	49	1.93	615 820 494 0

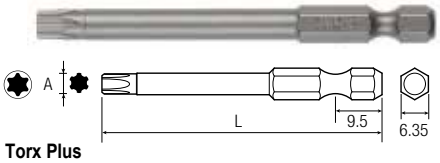
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Drive: 1/4” = 6.35mm
Hex drive - DIN3126-E6.3



T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
T5	1.37	0.05	49	1.93	**615 820 153 0**
T5	1.37	0.05	70	2.76	**615 820 154 0**
T6	1.65	0.06	49	1.93	**615 820 156 0**
T6	1.65	0.06	70	2.76	**615 820 157 0**
T7	1.97	0.08	70	2.76	**615 820 161 0**
T7	1.97	0.08	89	3.50	**615 820 162 0**
T8	2.30	0.09	49	1.93	**615 820 166 0**
T8	2.30	0.09	70	2.76	**615 820 167 0**
T8	2.30	0.09	90	3.54	**615 820 168 0**
T8	2.30	0.09	152	5.98	**615 820 169 0**
T9	2.48	0.10	70	2.76	**615 820 171 0**
T9	2.48	0.10	90	3.54	**615 820 172 0**
T9	2.48	0.10	152	5.98	**615 820 176 0**
T10	2.72	0.11	49	1.93	**615 820 177 0**
T10	2.72	0.11	70	2.76	**615 820 178 0**
T10	2.72	0.11	90	3.54	**615 820 179 0**
T10	2.72	0.11	152	5.98	**615 820 180 0**
T15	3.26	0.13	49	1.93	**615 820 181 0**
T15	3.26	0.13	70	2.76	**615 820 183 0**
T15	3.26	0.13	90	3.54	**615 820 186 0**
T15	3.26	0.13	152	5.98	**615 820 187 0***
T20	3.84	0.15	49	1.93	**615 820 188 0**
T20	3.84	0.15	70	2.76	**615 820 189 0**
T20	3.84	0.15	90	3.54	**615 820 190 0**
T20	3.84	0.15	152	5.98	**615 820 191 0**
T25	4.40	0.17	49	1.93	**615 820 192 0**
T25	4.40	0.17	70	2.76	**615 820 193 0**
T25	4.40	0.17	152	5.98	**615 820 316 0***
T27	4.96	0.20	90	3.54	**615 820 356 0**
T27	4.96	0.20	152	5.98	**615 820 695 0**
T30	5.49	0.22	49	1.93	**615 820 163 0**
T30	5.49	0.22	70	2.76	**615 820 174 0**
T30	5.49	0.22	90	3.54	**615 820 184 0**
T30	5.49	0.22	152	5.98	**615 820 194 0**
T40	6.60	0.26	49	1.93	**615 820 164 0**
T40	6.60	0.26	70	2.76	**615 820 175 0**
T40	6.60	0.26	90	3.54	**615 820 185 0**
T40	6.60	0.26	152	5.98	**615 820 195 0**

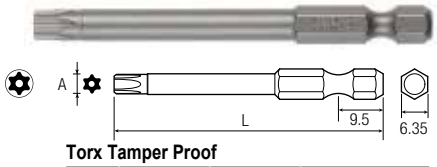
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Torx Plus

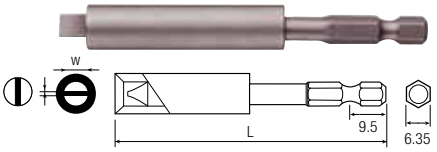
IP	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
5IP	1.37	0.05	49	1.93	**615 820 265 0**
5IP	1.37	0.05	70	2.76	**615 820 266 0**
6IP	1.65	0.06	49	1.93	**615 820 267 0**
6IP	1.65	0.06	152	5.98	**615 820 270 0**
7IP	1.97	0.08	49	1.93	**615 820 271 0**
7IP	1.97	0.08	70	2.76	**615 820 272 0**
7IP	1.97	0.08	90	3.54	**615 820 273 0**
7IP	1.97	0.08	152	5.98	**615 820 274 0**
8IP	2.30	0.09	49	1.93	**615 820 275 0**
8IP	2.30	0.09	90	3.54	**615 820 277 0**
8IP	2.30	0.09	152	5.98	**615 820 278 0**
9IP	2.48	0.10	49	1.93	**615 820 280 0.**
9IP	2.48	0.10	70	2.76	**615 820 281 0***
9IP	2.48	0.10	90	3.54	**615 820 286 0***
9IP	2.48	0.10	152	5.98	**615 820 279 0***
10IP	2.72	0.11	49	1.93	**615 820 287 0**
10IP	2.72	0.11	152	5.98	**615 820 294 0**
15IP	3.26	0.13	49	1.93	**615 820 295 0**
15IP	3.26	0.13	90	3.54	**615 820 301 0***
15IP	3.26	0.13	152	5.98	**615 820 302 0**
20IP	3.84	0.15	49	1.93	**615 820 303 0**
20IP	3.84	0.15	70	2.76	**615 820 304 0**
20IP	3.84	0.15	90	3.54	**615 820 305 0***
20IP	3.84	0.15	152	5.98	**615 820 306 0**
25IP	4.40	0.17	49	1.93	**615 820 282 0***
25IP	4.40	0.17	70	2.76	**615 820 283 0***
25IP	4.40	0.17	90	3.54	**615 820 284 0***
25IP	4.40	0.17	152	5.98	**615 820 285 0***
27IP	4.96	0.20	49	1.93	**615 820 289 0**
27IP	4.96	0.20	90	3.54	**615 820 291 0***
30IP	5.49	0.22	49	1.93	**615 820 297 0***
30IP	5.49	0.22	70	2.76	**615 820 298 0***
30IP	5.49	0.22	90	3.54	**615 820 299 0***
30IP	5.49	0.22	152	5.98	**615 820 300 0**
40IP	6.60	0.26	49	1.93	**615 820 307 0***
40IP	6.60	0.26	70	2.76	**615 820 308 0***
40IP	6.60	0.26	90	3.54	**615 820 309 0***
40IP	6.60	0.26	152	5.98	**615 820 310 0**

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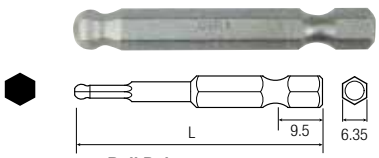
Torx Tamper Proof

T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
T10H	2.72	0.11	49	1.93	**615 820 196 0**
T10H	2.72	0.11	70	2.76	**615 820 198 0**
T20H	3.84	0.15	49	1.93	**615 820 197 0**
T20H	3.84	0.15	70	2.76	**615 820 199 0**



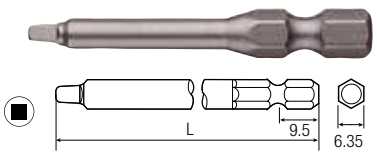
Finder Sleeve Combined

W	t		screw head	LENGTH L		PART NO
	mm	in		mm	in	10 pcs
4.90	0.91	0.04	4-5	95	3.74	**111062**
0.91	0.91	0.04	5-6	95	3.74	**615 820 503 0**
6.12	0.97	0.04	6-8	95	3.74	**111072**
7.37	1.07	0.04	8-10	95	3.74	**615 804 741 0**
8.89	1.17	0.05	10-12	95	3.74	**615 804 742 0**
10.03	1.27	0.05	12-14	98	3.86	**615 804 743 0**



Ball Point

H	LENGTH L		PART NO
	mm	in	10 pcs
H2	50	1.97	**615 820 202 0**
H2.5	50	1.97	**615 820 203 0**
H5	50	1.97	**615 820 206 0**
H6	50	1.97	**615 820 207 0**



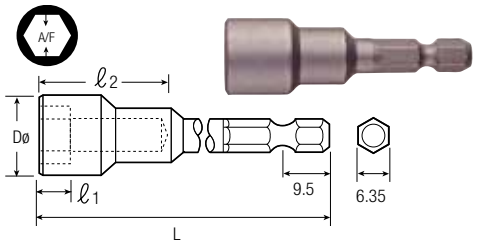
SQ	LENGTH L		PART NO
	mm	in	10 pcs
1 (3/32”)	70	2.76	**615 820 500 0**
3 (9/64”)	70	2.76	**615 820 502 0**

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Nut setters

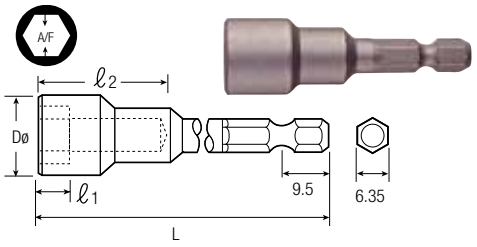
Drive: 1/4” = 6.35mm
Hex drive - DIN3126-E6.3

Non magnetic nut setters



A/F		Dø		l1		l2		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	mm	in	10 pcs
4.0	0.2	8.0	0.3	3.0	0.1	15.0	0.6	50	2.0	**615 820 573 0**
4.0	0.2	8.0	0.3	3.0	0.1	25.0	1.0	100	3.9	**615 820 599 0**
4.5	0.2	8.0	0.3	3.0	0.1	15.0	0.6	50	2.0	**615 820 574 0***
4.5	0.2	8.0	0.3	3.0	0.1	25.0	1.0	100	3.9	**615 820 600 0**
5.0	0.2	8.5	0.3	3.5	0.1	15.0	0.6	50	2.0	**615 820 575 0***
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	75	3.0	**615 820 588 0**
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	100	3.9	**615 820 601 0**
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	150	5.9	**615 820 210 0**
5.5	0.2	9.0	0.4	3.5	0.1	15.0	0.6	50	2.0	**615 820 576 0**
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	75	3.0	**615 820 589 0**
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	100	3.9	**615 820 602 0**
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	150	5.9	**615 820 211 0**
6.0	0.2	10.0	0.4	4.0	0.2	15.0	0.6	50	2.0	**615 820 577 0**
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	75	3.0	**615 820 590 0**
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	100	3.9	**615 820 603 0**
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	150	5.9	**615 820 212 0**
7.0	0.3	13.0	0.5	5.0	0.2	15.0	0.6	50	2.0	**615 820 578 0**
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	75	3.0	**615 820 591 0**
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	100	3.9	**615 820 604 0**
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	150	5.9	**615 820 213 0**
8.0	0.3	13.0	0.5	5.0	0.2	15.0	0.6	50	2.0	**615 820 579 0**
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	75	3.0	**615 820 592 0**
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	100	3.9	**615 820 605 0**
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	150	5.9	**615 820 214 0**
9.0	0.4	14.0	0.6	5.5	0.2	15.0	0.6	50	2.0	**615 820 580 0**
9.0	0.4	14.0	0.6	5.5	0.2	30.0	1.2	75	3.0	**615 820 593 0**
9.0	0.4	14.0	0.6	5.5	0.2	30.0	1.2	100	3.9	**615 820 606 0**
10.0	0.4	16.0	0.6	6.5	0.3	15.0	0.6	50	2.0	**615 820 581 0**
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	75	3.0	**615 820 594 0**
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	100	3.9	**615 820 607 0**
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	150	5.9	**615 820 215 0**
11.0	0.4	17.0	0.7	7.0	0.3	15.0	0.6	50	2.0	**615 820 582 0**
11.0	0.4	17.0	0.7	7.0	0.3	30.0	1.2	75	3.0	**615 820 595 0**
11.0	0.4	17.0	0.7	7.0	0.3	30.0	1.2	100	3.9	**615 820 608 0**
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	75	3.0	**615 820 596 0**
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	100	3.9	**615 820 609 0**
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	150	5.9	**615 820 216 0**
13.0	0.5	19.0	0.7	8.0	0.3	15.0	0.6	50	2.0	**615 820 584 0**
13.0	0.5	19.0	0.7	8.0	0.3	30.0	1.2	100	3.9	**615 820 610 0**
13.0	0.5	19.0	0.7	8.0	0.3	30.0	1.2	150	5.9	**615 820 217 0**
14.0	0.6	20.0	0.8	8.0	0.3	15.0	0.6	50	2.0	**615 820 585 0**
14.0	0.6	20.0	0.8	8.0	0.3	30.0	1.2	75	3.0	**615 820 598 0**
14.0	0.6	20.0	0.8	8.0	0.3	30.0	1.2	100	3.9	**615 820 611 0**

Magnetic nut setters



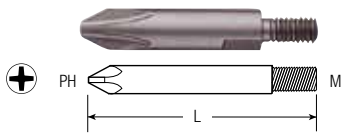
A/F		Dø		l1		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	10 pcs
5.0	0.2	8.5	0.3	3.5	0.1	50	2.0	**615 820 612 0**
5.0	0.2	8.5	0.3	3.5	0.1	75	3.0	**615 820 623 0**
5.0	0.2	8.5	0.3	3.5	0.1	100	3.9	**615 820 634 0**
5.0	0.2	8.5	0.3	3.5	0.1	150	5.9	**615 820 218 0**
5.5	0.2	9.0	0.4	3.5	0.1	50	2.0	**615 820 613 0**
5.5	0.2	9.0	0.4	3.5	0.1	75	3.0	**615 820 624 0***
6.0	0.2	10.0	0.4	4.0	0.2	50	2.0	**615 820 614 0**
6.0	0.2	10.0	0.4	4.0	0.2	75	3.0	**615 820 625 0**
6.0	0.2	10.0	0.4	4.0	0.2	100	3.9	**615 820 636 0**
6.0	0.2	10.0	0.4	4.0	0.2	150	5.9	**615 820 220 0**
7.0	0.3	13.0	0.5	4.5	0.2	50	2.0	**615 820 615 0**
7.0	0.3	13.0	0.5	4.5	0.2	75	3.0	**615 820 626 0**
7.0	0.3	13.0	0.5	4.5	0.2	100	3.9	**615 820 637 0**
7.0	0.3	13.0	0.5	5.0	0.2	150	5.9	**615 820 221 0**
8.0	0.3	13.0	0.5	5.0	0.2	50	2.0	**615 820 616 0**
8.0	0.3	13.0	0.5	5.0	0.2	75	3.0	**615 820 627 0**
8.0	0.3	13.0	0.5	5.0	0.2	100	3.9	**615 820 638 0**
8.0	0.3	13.0	0.5	5.0	0.2	150	5.9	**615 820 222 0**
9.0	0.4	14.0	0.6	5.5	0.2	50	2.0	**615 820 617 0**
9.0	0.4	14.0	0.6	5.5	0.2	75	3.0	**615 820 628 0**
9.0	0.4	14.0	0.6	5.5	0.2	100	3.9	**615 820 639 0**
10.0	0.4	16.0	0.6	6.5	0.3	50	2.0	**615 820 618 0**
10.0	0.4	16.0	0.6	6.5	0.3	75	3.0	**615 820 629 0**
10.0	0.4	16.0	0.6	6.5	0.3	100	3.9	**615 820 640 0**
10.0	0.4	16.0	0.6	6.5	0.3	150	5.9	**615 820 223 0**
11.0	0.4	17.0	0.7	7.0	0.3	50	2.0	**615 820 619 0**
11.0	0.4	17.0	0.7	7.0	0.3	75	3.0	**615 820 630 0**
11.0	0.4	17.0	0.7	7.0	0.3	100	3.9	**615 820 641 0**
12.0	0.5	18.0	0.7	7.5	0.3	50	2.0	**615 820 620 0**
12.0	0.5	18.0	0.7	7.5	0.3	75	3.0	**615 820 631 0**
12.0	0.5	18.0	0.7	7.5	0.3	100	3.9	**615 820 642 0**
12.0	0.5	18.0	0.7	7.5	0.3	150	5.9	**615 820 224 0**
13.0	0.5	19.0	0.7	8.0	0.3	50	2.0	**615 820 621 0**
13.0	0.5	19.0	0.7	8.0	0.3	75	3.0	**615 820 632 0**
13.0	0.5	19.0	0.7	8.0	0.3	100	3.9	**615 820 643 0**
13.0	0.5	19.0	0.7	8.0	0.3	150	5.9	**615 820 225 0**
14.0	0.6	20.0	0.8	8.0	0.3	50	2.0	**615 820 622 0**
14.0	0.6	20.0	0.8	8.0	0.3	75	3.0	**615 820 633 0**
14.0	0.6	20.0	0.8	8.0	0.3	100	3.9	**615 820 644 0**

* Production upon your order.

Screw shanks

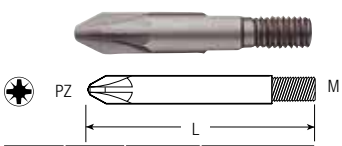
Screw shank driver bit



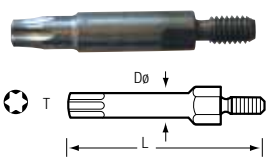


PH	M	LENGTH L		PART NO
		mm	in	10 pcs
2	M4	34	1.34	**615 820 654 0**
2	M5	34	1.34	**615 820 657 0**

* Production upon your order.



PZ	M	LENGTH L		PART NO
		mm	in	10 pcs
1	M4	34	1.34	**615 820 655 0**
2	M5	34	1.34	**615 820 658 0**

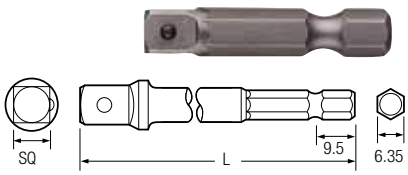


T	M	Dø		LENGTH L		PART NO
		mm	in	mm	in	10 pcs
T10	M4	6	0.24	33	1.3	**105782**
T20	M4	6	0.24	33	1.3	**105802**
T15	M5	7	0.28	33	1.3	**105842**
T20	M5	7	0.28	33	1.3	**105852**
T25	M5	7	0.28	33	1.3	**105862**
T30	M5	7	0.28	33	1.3	**105882**

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Adapters

Drive: 1/4” = 6.35mm Hex drive - DIN3126-E6.3



SQ	LENGTH L		PART NO
	mm	in	
1/4”	35	1.38	**95352**
1/4”	51	2.01	**615 820 508 0**
1/4”	76	2.99	**615 820 509 0**
1/4”	102	4.02	**615 820 510 0**
1/4”	152	5.98	**615 820 511 0**
3/8”	43	1.69	**95362**
3/8”	51	2.01	**615 820 512 0**
3/8”	76	2.99	**615 820 513 0**
3/8”	102	4.02	**615 820 514 0**
3/8”	152	5.98	**615 820 515 0**

Bits holders

Drive: 1/4” = 6.35mm Hex drive - DIN3126-C6.3



	TIP SIZE	LENGTH L		MAGNETIC	PART NO
		mm	in		
	T10	33	1.30	yes	**615 820 247 0**
✪	T15	33	1.30	yes	**615 820 245 0**
	T20	33	1.30	yes	**615 820 246 0**
	T25	33	1.30	yes	**615 820 253 0**
✪	PH1	33	1.30	yes	**615 820 248 0**
	PH2	33	1.30	yes	**615 820 249 0**
✪	PZ1	33	1.30	yes	**615 820 250 0**
	PZ2	33	1.30	yes	**615 820 251 0**



	TIP SIZE	LENGTH L		PART NO
		mm	in	10 pcs
	T10	33	1.30	**615 820 332 0**
	T10	49	1.93	**615 820 340 0**
	T10	70	2.76	**615 820 341 0**
	T15	33	1.30	**615 820 333 0**
	T15	49	1.93	**615 820 702 0**
✪	T20	33	1.30	**615 820 334 0**
	T20	49	1.93	**615 820 342 0**
	T20	75	2.95	**615 820 343 0**
	T20	150	5.91	**615 820 344 0**
	T25	33	1.30	**615 820 335 0**
	T25	49	1.93	**615 820 704 0**
	T25	70	2.76	**615 820 705 0**
✪	PZ1	33	1.30	**615 820 338 0**
	PZ2	33	1.30	**615 820 339 0**



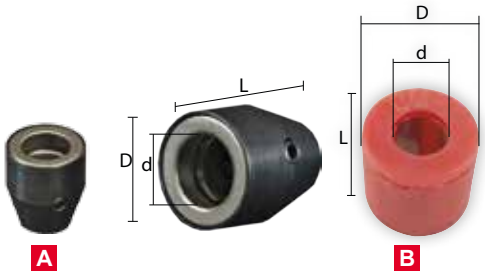
PART NO	TIP SIZE	DRIVE	LENGTH L		DIAMETER ø		MAGNETIC	DIN 3126-C6.3	DIN 3126-E6.3	DOUBLE ENDED BITS DIN 3126-E6.3	DOUBLE ENDED BITS DIN 3126-C6.3	SPECIFIC BIT
			mm	in	mm	in						
615 820 557 0		5/16”	70	2.8	12.7	0.51	Yes	X				
11502		5/16”	54	2.2	11.1	0.44	Yes	X				
615 820 556 0		5/16”	50	2.0	11.1	0.44	No	X				
615 820 443 0		1/4”	71	2.8	17	0.68	Yes	X				
615 820 404 0		1/4”	60	2.4	11.1	0.44	Yes	X				
615 820 555 0		1/4”	75	3.0	9.1	0.36	Yes			X		
110102		1/4”	150	6.0	11.1	0.44	Yes	X				
615 820 506 0		1/4”	100	4.0	11.1	0.44	Yes	X				
615 820 507 0		1/4”	150	6.0	11.1	0.44	Yes	X				
615 820 402 0		1/4”	60	2.4	11.1	0.44	No			X		
615 820 504 0		1/4”	100	4.0	11.1	0.44	No	X				
615 820 505 0		1/4”	150	6.0	11.1	0.44	No	X				
615 820 405 0		1/4”	62	2.5	14.4	0.58	Yes				X	
615 820 403 0		1/4”	62	2.5	14.4	0.58	No				X	
615 820 254 0	T10	1/4”	49	2.0	-	-	Yes					X
615 820 255 0	T10	1/4”	70	2.8	-	-	Yes					X
615 820 698 0	T15	1/4”	49	2.0	-	-	Yes					X
615 820 699 0	T15	1/4”	70	2.8	-	-	Yes					X
615 820 256 0	T20	1/4”	49	2.0	-	-	Yes					X
615 820 244 0	T20	1/4”	75	3.0	-	-	Yes					X
615 820 252 0	T20	1/4”	150	6.0	-	-	Yes					X
615 820 700 0	T25	1/4”	49	2.0	-	-	Yes					X
615 820 701 0	T25	1/4”	70	2.8	-	-	Yes					X

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Sockets and adaptors range

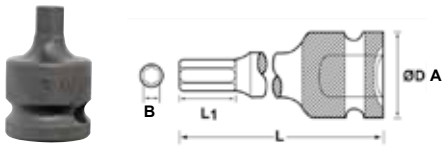
Ring magnet sleeves

PICTURE	d Max		D		L		PART NO
	mm	in	mm	in	mm	in	
A	3.1	0.12	9	0.35	16	0.63	**615 811 423 0**
	3.8	0.15	9	0.35	16	0.63	**615 811 424 0**
	4.5	0.18	9	0.35	16	0.63	**615 811 425 0**
	5	0.2	9	0.35	16	0.63	**615 811 426 0**
	6.5	0.26	11	0.43	16	0.63	**615 811 427 0**
	7.1	0.28	14	0.55	16	0.63	**615 811 428 0**
	8.2	0.32	14	0.55	16	0.63	**615 811 429 0**
	14	0.55	23.5	0.93	18	0.71	**615 811 432 0**
B	7	0.27	14	0.54	13	0.51	**614 804 978 0**



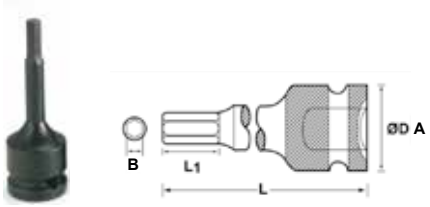
3/8’’ Hexagonal drives

A	B		L		L1		ØD		PART NO.
	mm	in	mm	in	mm	in	mm	in	
3/8’’	4	0.16	60	1.97	16	0.63	19	0.75	**909 201 378 1**
3/8’’	5	0.2	60	1.97	16	0.63	19	0.75	**909 201 381 1**
3/8’’	6	0.24	60	1.97	16	0.63	19	0.75	**909 201 381 1**
3/8’’	8	0.31	60	1.97	16	0.63	19	0.75	**909 201 387 1**
3/8’’	10	0.39	60	1.97	16	0.63	19	0.75	**909 201 390 1**



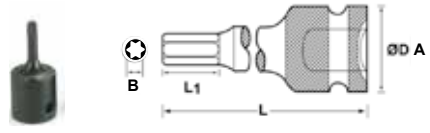
1/2’’ Hexagonal drives

A	B		L		L1		ØD		PART NO
	mm	in	mm	in	mm	in	mm	in	
1/2"	6	0.24	78	3,1	9	0,4	25	0.98	**615 811 763 0**
1/2"	8	0.31	78	3,1	16	0,6	25	0.98	**909 201 396 1**
1/2"	10	0.39	78	3,1	16	0,6	25	0.98	**909 201 399 1**
1/2"	14	0.55	78	3,1	20	0,8	25	0.98	**909 201 405 1**



Internal Torx drives

A	B	L		L1		ØD		PART NO.
		mm	in	mm	in	mm	in	
3/8’’	T25	40	2.95	3	0.12	22	0.87	**615 811 434 0**
3/8’’	T30	40	2.95	3.8	0.15	22	0.87	**615 811 435 0**
3/8’’	T40	40	2.95	3.8	0.15	22	0.87	**615 811 436 0**
1/2’’	T40	55	2.95	3.8	0.15	25	0.98	**615 811 437 0**



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1/4” = 6.35mm Square drive sockets

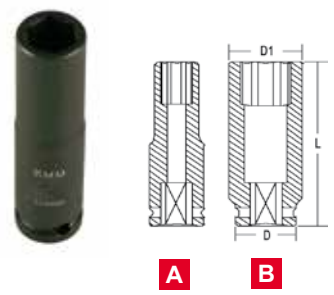
1/4” Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S2055M	5.5	0.22	A	13	0.51	9.4	0.37	23.1	0.91	**894 016 367 5**
S208M	8	0.31	A	13	0.51	12.2	0.48	23.1	0.91	**894 016 367 8**
S210M	10	0.39	B	13	0.51	14.7	0.58	23.1	0.91	**894 016 368 0**
S213M	13	0.51	B	13	0.51	18.8	0.74	23.1	0.91	**894 016 368 3**



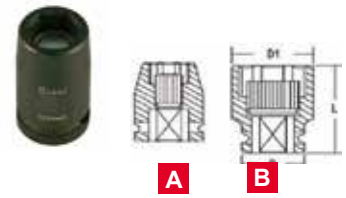
1/4” Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S207MD	7	1.8	A	13	0.51	11.2	0.44	50.0	1.97	**894 016 370 1**
S208MD	8	2	A	13	0.51	12.2	0.48	50.0	1.97	**894 016 370 2**
S210MD	10	2.5	B	13	0.51	14.7	0.58	50.0	1.97	**894 016 370 4**
S213MD	13	3.3	B	13	0.51	18.8	0.74	50.0	1.97	**894 016 370 7**



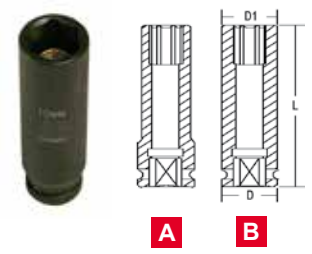
1/4” Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S206MG	6	1.5	A	13	0.51	9.9	0.39	23.1	0.91	**894 016 374 1**
S208MG	8	2	A	13	0.51	12.2	0.48	23.1	0.91	**894 016 374 3**
S210MG	10	2.5	B	13	0.51	14.5	0.57	23.1	0.91	**894 016 374 5**



1/4” Deep Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S208MDG	8	0.31	A	13	0.51	12.2	0.48	50.0	1.97	**894 016 376 5**
S210MDG	10	0.39	B	13	0.51	14.5	0.57	50.0	1.97	**894 016 376 7**



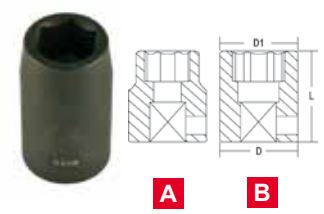
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Sockets and adaptors range

3/8'' = 9.52mm Square drive sockets

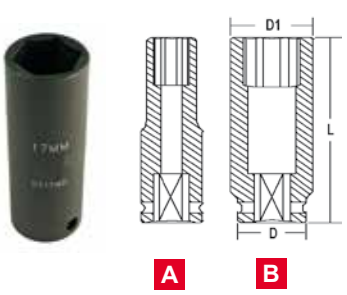
3/8" Standard

MODEL	OUTPUT SIZE		DESSIN	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307M	7	0.28	A	19.0	0.75	11.4	0.45	29.5	1.16	**894 016 378 5**
S308M	8	0.31	A	19.0	0.75	12.7	0.5	29.5	1.16	**894 016 378 6**
S310M	10	0.39	A	19.0	0.75	15.2	0.6	29.5	1.16	**894 016 378 8**
S311M	11	0.43	A	19.0	0.75	17.0	0.67	29.5	1.16	**894 016 378 9**
S312M	12	0.47	B	19.0	0.75	19.0	0.75	29.5	1.16	**894 016 379 0**
S313M	13	0.51	B	19.0	0.75	19.0	0.75	29.5	1.16	**894 016 379 1**
S314M	14	0.55	B	20.0	0.79	20.0	0.79	29.5	1.16	**894 016 379 2**
S315M	15	0.59	B	22.1	0.87	22.1	0.87	29.5	1.16	**894 016 379 3**
S316M	16	0.63	B	23.6	0.93	23.6	0.93	30.0	1.18	**894 016 379 4**
S317M	17	0.67	B	23.9	0.94	23.9	0.94	30.0	1.18	**894 016 379 5**
S318M	18	0.71	B	24.9	0.98	24.9	0.98	30.0	1.18	**894 016 379 6**
S319M	19	0.75	B	25.9	1.02	25.9	1.02	30.0	1.18	**894 016 379 7**
S322M	22	0.87	B	30.0	1.18	30.0	1.18	30.0	1.18	**894 016 380 0**



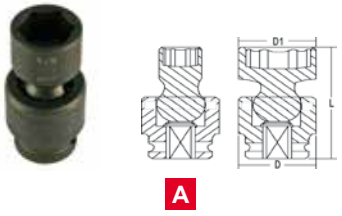
3/8" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307MD	7	0.28	A	19.0	0.75	11.4	0.45	65.0	2.56	**894 016 381 3**
S308MD	8	0.31	A	19.0	0.75	12.7	0.50	65.0	2.56	**894 016 381 4**
S310MD	10	0.39	A	19.0	0.75	15.2	0.60	65.0	2.56	**894 016 381 6**
S311MD	11	0.43	A	19.0	0.75	17.0	0.67	65.0	2.56	**894 016 381 7**
S313MD	13	0.51	B	19.0	0.75	19.0	0.75	65.0	2.56	**894 016 381 9**
S314MD	14	0.55	B	20.0	0.79	20.0	0.79	65.0	2.56	**894 016 382 0**
S315MD	15	0.59	B	22.1	0.87	22.1	0.87	65.0	2.56	**894 016 382 1**
S316MD	16	0.63	B	23.6	0.93	23.6	0.93	65.0	2.56	**894 016 382 2**
S317MD	17	0.67	B	23.9	0.94	23.9	0.94	65.0	2.56	**894 016 382 3**
S319MD	19	0.75	B	25.9	1.02	25.9	1.02	65.0	2.56	**894 016 382 5**
S321MD	21	0.83	B	27.9	1.1	27.9	1.10	65.0	2.56	**894 016 382 7**



3/8" Universal

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S314MU	14	0.55	A	26.9	1.06	21.0	0.83	55.1	2.17	**894 016 384 7**



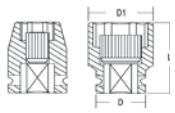
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Sockets and adaptors range

3/8" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S310MG	10	0.39	A	19.0	0.75	15.2	0.6	29.5	1.16	**894 016 389 5**
S313MG	13	0.51	A	22.1	0.87	19.3	0.8	29.5	1.16	**894 016 389 8**
S314MG	14	0.55	A	22.1	0.87	20.3	0.8	29.5	1.16	**894 016 389 9**

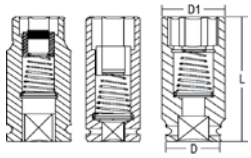




3/8" Deep magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S308MDG	8	0.31	A	19.0	0.75	12.7	0.5	63	2.5	**894 016 391 5**
S310MDG	10	0.39	A	19.0	0.75	15.2	0.6	63	2.5	**894 016 391 7**
S313MDG	13	0.51	B	19.0	0.75	18.8	0.74	63	2.5	**894 016 392 0**



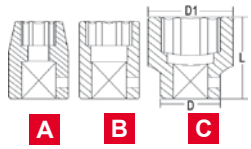


1/2" = 12.7mm Square drive sockets

1/2" Standard

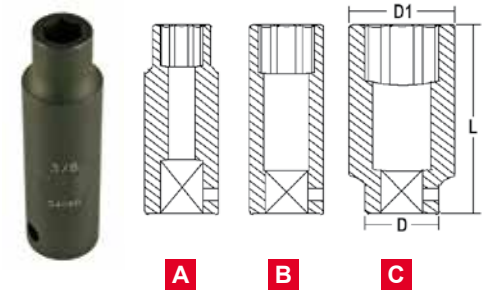
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S408M	8	0.31	A	22.1	0.87	14.5	0.57	38.1	1.5	**894 016 395 0**
S409M	9	0.35	A	22.1	0.87	15.5	0.61	38.1	1.5	**894 016 395 1**
S410M	10	0.39	A	22.1	0.87	16.8	0.66	38.1	1.5	**894 016 395 2**
S412M	12	0.47	A	22.1	0.87	19.0	0.75	38.1	1.5	**894 016 395 4**
S413M	13	0.51	A	23.8	0.94	20.3	0.8	38.1	1.5	**894 016 395 5**
S414M	14	0.55	A	23.8	0.94	21.6	0.85	38.1	1.5	**894 016 395 6**
S415M	15	0.59	A	24.9	0.98	23.1	0.91	38.1	1.5	**894 016 395 7**
S416M	16	0.63	B	24.9	0.98	24.9	0.98	38.1	1.5	**894 016 395 8**
S417M	17	0.67	B	25.9	1.02	25.9	1.02	38.1	1.5	**894 016 395 9**
S418M	18	0.71	B	26.4	1.04	26.4	1.04	38.1	1.5	**894 016 396 0**
S419M	19	0.75	B	27.9	1.1	27.9	1.1	38.1	1.5	**894 016 396 1**
S420M	20	0.79	B	30.0	1.18	30.0	1.18	38.1	1.5	**894 016 396 2**
S421M	21	0.83	B	30.0	1.18	30.0	1.18	38.1	1.5	**894 016 396 3**
S422M	22	0.87	B	32.0	1.26	32.0	1.26	38.1	1.5	**894 016 396 4**
S424M	24	0.94	B	34.0	1.34	34.0	1.34	38.1	1.5	**894 016 396 6**
S426M	26	1.02	B	36.0	1.42	36.0	1.42	38.1	1.5	**894 016 396 8**
S427M	27	1.06	B	38.1	1.5	38.	1.50	39.9	1.57	**894 016 396 9**
S428M	28	1.10	B	39.8	1.57	39.9	1.57	39.9	1.57	**894 016 397 0**
S429M	29	1.14	B	39.8	1.57	39.9	1.57	39.9	1.57	**894 016 397 1**
S430M	30	1.18	C	38.1	1.5	41.9	1.65	39.9	1.57	**894 016 397 2**
S431M	31	1.22	C	38.1	1.5	43.9	1.73	39.9	1.57	**894 016 397 3**
S432M	32	1.26	C	38.1	1.5	43.9	1.73	39.9	1.57	**894 016 397 4**





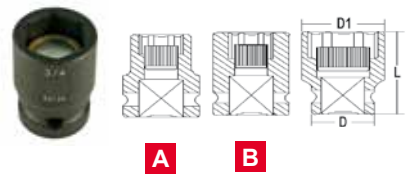
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Sockets and adaptors range



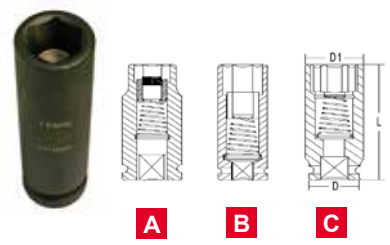
1/2" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S408MD	8	0.31	A	22.1	0.87	14.5	0.57	78.0	3.07	**894 016 399 8**
S409MD	9	0.35	A	22.1	0.87	15.5	0.61	78.0	3.07	**894 016 399 9**
S410MD	10	0.39	A	22.1	0.87	16.8	0.66	78.0	3.07	**894 016 400 0**
S411MD	11	0.43	A	22.1	0.87	18.0	0.71	78.0	3.07	**894 016 400 1**
S412MD	12	0.47	A	22.1	0.87	19.0	0.75	78.0	3.07	**894 016 400 2**
S413MD	13	0.51	A	23.9	0.94	20.3	0.8	78.0	3.07	**894 016 400 3**
S414MD	14	0.55	A	23.9	0.94	21.6	0.85	78.0	3.07	**894 016 400 4**
S415MD	15	0.59	B	23.9	0.94	23.9	0.94	78.0	3.07	**894 016 400 5**
S416MD	16	0.63	B	24.9	0.98	24.9	0.98	78.0	3.07	**894 016 400 6**
S417MD	17	0.67	B	25.9	1.02	25.9	1.02	78.0	3.07	**894 016 400 7**
S418MD	18	0.71	B	25.9	1.02	25.9	1.02	78.0	3.07	**894 016 400 8**
S419MD	19	0.75	B	27.9	1.1	27.9	1.1	78.0	3.07	**894 016 400 9**
S420MD	20	0.79	B	30.0	1.18	30.0	1.18	78.0	3.07	**894 016 772 2**
S421MD	21	0.83	B	30.0	1.18	30.0	1.18	78.0	3.07	**894 016 401 0**
S422MD	22	0.87	B	32.0	1.26	32.0	1.26	78.0	3.07	**894 016 772 3**
S423MD	23	0.91	B	32.0	1.26	32.0	1.26	78.0	3.07	**894 016 772 4**
S424MD	24	0.94	B	34.0	1.34	34.0	1.34	78.0	3.07	**894 016 772 5**
S425MD	25	0.98	B	36.1	1.42	36.1	1.42	78.0	3.07	**894 016 772 6**
S426MD	26	1.02	B	36.1	1.42	36.1	1.42	78.0	3.07	**894 016 401 1**
S427MD	27	1.06	B	38.1	1.5	38.1	1.5	78.0	3.07	**894 016 401 2**
S428MD	28	1.1	B	39.9	1.57	39.9	1.57	78.0	3.07	**894 016 401 3**
S429MD	29	1.14	B	39.9	1.57	39.9	1.57	78.0	3.07	**894 016 401 4**
S430MD	30	1.18	C	38.1	1.5	41.9	1.65	78.0	3.07	**894 016 401 5**
S431MD	31	1.22	C	38.1	1.5	43.9	1.73	78.0	3.07	**894 016 401 6**
S432MD	32	1.26	C	38.1	1.5	43.9	1.73	78.0	3.07	**894 016 401 7**
S433MD	33	1.3	C	38.1	1.5	45.0	1.77	78.0	3.07	**894 016 401 8**
S434MD	34	1.34	C	38.1	1.5	46.0	1.81	78.0	3.07	**894 016 401 9**
S435MD	35	1.38	C	38.1	1.5	50.0	1.97	78.0	3.07	**894 016 402 0**
S436MD	36	1.42	C	38.1	1.5	50.0	1.97	78.0	3.07	**894 016 402 1**



1/2" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S416MG	16	0.63	A	29.9	1.18	24.4	0.96	38.1	1.5	**894 016 409 9**
S417MG	17	0.67	A	29.9	1.18	25.9	1.02	38.1	1.5	**894 016 410 0**
S419MG	19	0.75	A	29.9	1.18	27.9	1.1	38.1	1.5	**894 016 410 2**
S421MG	21	0.83	B	29.9	1.18	29.9	1.18	38.1	1.5	**894 016 410 4**



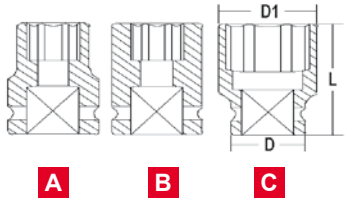
1/2" Deep Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S414MDG	14	0.55	A	24.9	0.98	21.6	0.85	78	3.07	**894 016 412 0**
S416MDG	16	0.63	B	24.9	0.98	24.9	0.98	78	3.07	**894 016 412 2**
S419MDG	19	0.75	C	24.9	0.98	27.9	1.1	78	3.07	**894 016 412 5**

3/4" = 19mm Square Drive Sockets

3/4" Standard





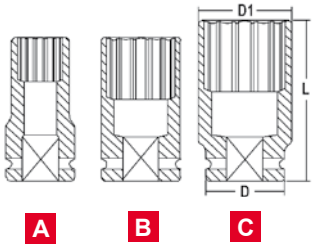
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S620M	20	0.79	A	38.1	1.5	31.0	1.22	52.1	2.05	**894 016 418 1**
S622M	22	0.87	A	38.1	1.5	34.0	1.34	52.1	2.05	**894 016 418 3**
S623M	23	0.91	A	38.1	1.5	35.0	1.38	52.1	2.05	**894 016 418 4**
S624M	24	0.94	A	38.1	1.5	36.0	1.42	52.1	2.05	**894 016 418 5**
S625M	25	0.98	B	38.1	1.5	38.1	1.5	52.1	2.05	**894 016 418 6**
S626M	26	1.02	B	39.8	1.57	39.9	1.57	52.1	2.05	**894 016 418 7**
S627M	27	1.06	B	39.8	1.57	39.9	1.57	52.1	2.05	**894 016 418 8**
S628M	28	1.1	B	41.9	1.65	41.9	1.65	52.1	2.05	**894 016 418 9**
S629M	29	1.14	B	41.9	1.65	41.9	1.65	52.1	2.05	**894 016 419 0**
S630M	30	1.18	B	43.9	1.73	43.9	1.73	52.1	2.05	**894 016 419 1**
S631M	31	1.22	B	43.9	1.73	43.9	1.73	55.9	2.2	**894 016 419 2**
S632M	32	1.26	B	43.9	1.73	43.9	1.73	55.9	2.2	**894 016 419 3**
S633M	33	1.3	C	43.9	1.73	47.0	1.85	55.9	2.2	**894 016 419 4**
S634M	34	1.34	C	43.9	1.73	48	1.89	55.9	2.2	**894 016 419 5**
S635M	35	1.38	C	43.9	1.73	50.0	1.97	55.9	2.2	**894 016 419 6**
S636M	36	1.42	C	43.9	1.73	51.0	2.01	55.9	2.2	**894 016 419 7**
S637M	37	1.46	C	43.9	1.73	52.1	2.05	55.9	2.2	**894 016 419 8**
S638M	38	1.5	C	43.9	1.73	53.1	2.09	55.9	2.2	**894 016 419 9**
S640M	40	1.57	C	43.9	1.73	55.9	2.2	62.0	2.44	**894 016 420 0**
S641M	41	1.61	C	43.9	1.73	57.9	2.28	62.0	2.44	**894 016 420 1**
S642M	42	1.65	C	43.9	1.73	61.0	2.4	62.0	2.44	**894 016 420 2**
S643M	43	1.69	C	43.9	1.73	63.0	2.48	63.0	2.48	**894 016 420 3**
S644M	44	1.73	C	43.9	1.73	65.0	2.56	63.0	2.48	**894 016 420 4**
S646M	46	1.81	C	43.9	1.73	67.0	2.64	63.0	2.48	**894 016 420 5**
S650M	50	1.97	C	54.1	2.13	71.1	2.8	71.9	2.83	**894 016 420 6**

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3/4" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S619MD	19	0.75	A	38.1	1.5	30.0	1.18	85.1	3.35	**894 016 424 8**
S620MD	20	0.79	A	38.1	1.5	31.0	1.22	85.1	3.35	**894 016 424 9**
S621MD	21	0.83	A	38.1	1.5	32.0	1.26	85.1	3.35	**894 016 425 0**
S622MD	22	0.87	A	38.1	1.5	34.0	1.34	85.1	3.35	**894 016 425 1**
S623MD	23	0.91	A	38.1	1.5	35.0	1.38	85.1	3.35	**894 016 425 2**
S624MD	24	0.94	A	38.1	1.5	36.0	1.42	85.1	3.35	**894 016 425 3**
S625MD	25	0.98	B	38.1	1.5	38.1	1.5	85.1	3.35	**894 016 425 4**
S626MD	26	1.02	B	39.9	1.57	39.9	1.57	85.1	3.35	**894 016 425 5**
S627MD	27	1.06	B	39.9	1.57	39.9	1.57	85.1	3.35	**894 016 425 6**
S628MD	28	1.1	B	41.9	1.65	41.9	1.65	85.1	3.35	**894 016 425 7**
S629MD	29	1.14	B	41.9	1.65	41.9	1.65	85.1	3.35	**894 016 425 8**
S630MD	30	1.18	B	43.9	1.73	43.9	1.73	85.1	3.35	**894 016 425 9**
S631MD	31	1.22	B	43.9	1.73	43.9	1.73	85.1	3.35	**894 016 426 0**
S632MD	32	1.26	B	43.9	1.73	43.9	1.73	85.1	3.35	**894 016 426 1**
S633MD	33	1.3	C	43.9	1.73	47.0	1.85	85.1	3.35	**894 016 426 2**
S634MD	34	1.34	C	43.9	1.73	48.0	1.89	85.1	3.35	**894 016 426 3**
S635MD	35	1.38	C	43.9	1.73	50.0	1.97	85.1	3.35	**894 016 426 4**
S636MD	36	1.42	C	43.9	1.73	51.0	2.01	85.1	3.35	**894 016 426 5**
S638MD	38	1.5	C	43.9	1.73	53.1	2.09	85.1	3.35	**894 016 426 7**
S640MD	40	1.57	C	43.9	1.73	55.9	2.2	85.1	3.35	**894 016 426 8**
S641MD	41	1.61	C	43.9	1.73	57.9	2.28	85.1	3.35	**894 016 426 9**
S642MD	42	1.65	C	43.9	1.73	60.1	2.4	85.1	3.35	**894 016 427 0**
S643MD	43	1.69	C	43.9	1.73	63.0	2.48	95.0	3.74	**894 016 427 1**
S644MD	44	1.73	C	43.9	1.73	65.0	2.56	95.0	3.74	**894 016 427 2**
S646MD	46	1.81	C	43.9	1.73	67.1	2.64	95.0	3.74	**894 016 427 3**
S650MD	50	1.97	C	54.1	2.13	71.1	2.8	95.0	3.74	**894 016 427 4**



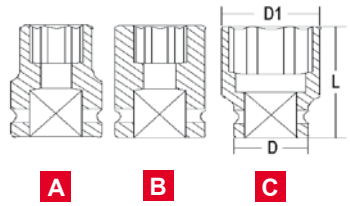


1" = 25.4mm Square Drive Sockets

1" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S819M	19	0.75	A	51.0	2.01	36.1	1.42	57.9	2.28	**894 016 432 3**
S821M	21	0.83	A	51.0	2.01	38.1	1.5	57.9	2.28	**894 016 432 4**
S822M	22	0.87	A	51.0	2.01	39.1	1.54	57.9	2.28	**894 016 432 5**
S823M	23	0.91	A	51.0	2.01	39.9	1.57	57.9	2.28	**894 016 432 6**
S824M	24	0.94	A	51.0	2.01	39.9	1.57	57.9	2.28	**894 016 432 7**
S825M	25	0.98	A	51.0	2.01	40.9	1.61	57.9	2.28	**894 016 432 8**
S826M	26	1.02	A	51.0	2.01	42.4	1.67	57.9	2.28	**894 016 432 9**
S827M	27	1.06	A	51.0	2.01	43.9	1.73	57.9	2.28	**894 016 433 0**
S828M	28	1.1	A	51.0	2.01	45.0	1.77	57.9	2.28	**894 016 433 1**
S829M	29	1.14	A	51.0	2.01	46.0	1.81	59.9	2.36	**894 016 433 2**
S830M	30	1.18	A	51.0	2.01	48.0	1.89	59.9	2.36	**894 016 433 3**
S832M	32	1.26	B	51.0	2.01	51.0	2.01	59.9	2.36	**894 016 433 4**
S833M	33	1.3	C	52.1	2.05	53.1	2.09	62.0	2.44	**894 016 433 5**
S835M	35	1.38	C	52.1	2.05	54.1	2.13	62.0	2.44	**894 016 433 6**
S836M	36	1.42	C	52.1	2.05	55.9	2.2	62.0	2.44	**894 016 433 7**
S838M	38	1.5	C	52.1	2.05	57.9	2.28	62.0	2.44	**894 016 433 8**
S840M	40	1.57	C	52.1	2.05	59.9	2.36	62.0	2.44	**894 016 433 9**
S841M	41	1.61	C	52.1	2.05	61.5	2.42	62.0	2.44	**894 016 434 0**
S842M	42	1.65	C	52.0	2.05	63.0	2.48	64.0	2.52	**894 016 434 1**
S843M	43	1.69	C	52.0	2.05	64.8	2.55	64.0	2.52	**894 016 434 2**
S844M	44	1.73	C	57.9	2.28	65.8	2.59	64.0	2.52	**894 016 434 3**
S845M	45	1.77	C	57.9	2.28	66.8	2.63	64.0	2.52	**894 016 434 4**
S846M	46	1.81	C	57.9	2.28	68.1	2.68	64.0	2.52	**894 016 434 5**
S850M	50	1.97	C	57.9	2.28	72.9	2.87	70.1	2.76	**894 016 434 6**





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Sockets and adaptors range

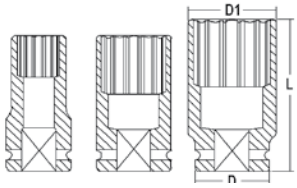
1" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S852M	52	2.05	C	57.9	2.28	74.9	2.95	70.1	2.76	**894 016 434 7**
S854M	54	2.13	C	57.9	2.28	78.0	3.07	70.1	2.76	**894 016 434 8**
S855M	55	2.17	C	62.0	2.44	79.0	3.11	71.9	2.83	**894 016 434 9**
S856M	56	2.2	C	61.2	2.44	80.0	3.15	73.9	2.91	**894 016 435 0**
S858M	58	2.28	C	61.0	2.44	85.1	3.35	74.9	2.95	**894 016 435 1**
S860M	60	2.36	C	61.0	2.44	87.1	3.43	78.0	3.07	**894 016 435 2**
S865M	65	2.56	C	61.0	2.44	93.0	3.66	80.0	3.15	**894 016 435 3**
S870M	70	2.76	C	62.0	2.44	98.0	3.86	85.1	3.35	**894 016 435 4**

1" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S819MD	19	0.75	A	51.0	2.01	36.1	1.42	89.9	3.54	**894 016 440 3**
S821MD	21	0.83	A	51.0	2.01	38.1	1.5	89.9	3.54	**894 016 440 4**
S822MD	22	0.87	A	51.0	2.01	39.1	1.54	89.9	3.54	**894 016 440 5**
S823MD	23	0.91	A	51.0	2.01	39.9	1.57	89.9	3.54	**894 016 440 6**
S824MD	24	0.94	A	51.0	2.01	39.9	1.57	89.9	3.54	**894 016 440 7**
S825MD	25	0.98	A	51.0	2.01	40.9	1.61	89.9	3.54	**894 016 440 8**
S826MD	26	1.02	A	51.0	2.01	42.4	1.67	89.9	3.54	**894 016 440 9**
S827MD	27	1.06	A	51.0	2.01	43.9	1.73	89.9	3.54	**894 016 441 0**
S828MD	28	1.1	A	51.0	2.01	45.0	1.77	89.9	3.54	**894 016 441 1**
S829MD	29	1.14	A	51.0	2.01	46.0	1.81	89.9	3.54	**894 016 441 2**
S830MD	30	1.18	A	51.0	2.01	48.0	1.89	89.9	3.54	**894 016 441 3**
S832MD	32	1.26	B	51.0	2.01	51.0	2.01	89.9	3.54	**894 016 441 4**
S833MD	33	1.3	C	52.1	2.05	53.1	2.09	89.9	3.54	**894 016 441 5**
S834MD	34	1.34	C	52.1	2.05	54.1	2.13	89.9	3.54	**894 016 441 6**
S835MD	35	1.38	C	52.1	2.05	54.1	2.13	89.9	3.54	**894 016 441 7**
S836MD	36	1.42	C	52.1	2.05	55.9	2.2	89.9	3.54	**894 016 441 8**
S838MD	38	1.5	C	52.1	2.05	57.9	2.28	91.9	3.62	**894 016 441 9**
S840MD	40	1.57	C	52.1	2.05	59.9	2.36	91.9	3.62	**894 016 442 0**
S841MD	41	1.61	C	52.1	2.05	61.5	2.42	91.9	3.62	**894 016 442 1**
S842MD	42	1.65	C	52.1	2.05	63.0	2.48	91.9	3.62	**894 016 442 2**
S843MD	43	1.69	C	52.1	2.05	65.0	2.56	91.9	3.62	**894 016 442 3**
S844MD	44	1.73	C	57.9	2.28	66.0	2.6	91.9	3.62	**894 016 442 4**
S845MD	45	1.77	C	57.9	2.28	67.0	2.64	91.9	3.62	**894 016 442 5**
S846MD	46	1.81	C	57.9	2.28	68.0	2.68	91.9	3.62	**894 016 442 6**
S850MD	50	1.97	C	57.9	2.28	72.9	2.87	95.0	3.74	**894 016 442 7**
S852MD	52	2.05	C	57.9	2.28	74.9	2.95	95.0	3.74	**894 016 442 8**
S854MD	54	2.13	C	57.9	2.28	78.0	3.07	95.0	3.74	**894 016 442 9**
S855MD	55	2.17	C	62.0	2.44	79.0	3.11	100.1	3.94	**894 016 443 0**
S856MD	56	2.2	C	62.0	2.44	80.0	3.15	100.1	3.94	**894 016 443 1**
S858MD	58	2.28	C	62.0	2.44	85.1	3.35	104.9	4.13	**894 016 443 2**
S860MD	60	2.36	C	62.0	2.44	87.1	3.43	104.9	4.13	**894 016 443 3**
S865MD	65	2.56	C	62.0	2.44	93.0	3.66	119.9	4.72	**894 016 443 4**
S870MD	70	2.76	C	62.0	2.44	98.0	3.86	123.9	4.88	**894 016 443 5**
S831D*		1-15/16"	C	57.9	2.28	71.9	2.83	91.9	3.62	**894 016 437 4**
S832D*		2"	C	57.9	2.28	73.9	2.91	95.0	3.74	**894 016 437 5**
S833D*		2-1/16"	C	57.9	2.28	74.9	2.95	95.0	3.74	**894 016 437 6**
S834D*		2-1/8"	C	57.9	2.28	78.0	3.07	95.0	3.74	**894 016 437 7**
S835D*		2-3/16"	C	62.0	2.44	80.0	3.15	100.1	3.94	**894 016 437 8**
S836D*		2-1/4"	C	62.0	2.44	84.1	3.31	100.1	3.94	**894 016 437 9**
S837D*		2-5/16"	C	62.0	2.44	86.1	3.39	104.9	4.13	**894 016 438 0**
S838D*		2-3/8"	C	62.0	2.44	87.1	3.43	104.9	4.13	**894 016 438 1**
S839D*		2-7/16"	C	62.0	2.44	88.9	3.5	110.0	4.33	**894 016 438 2**
S840D*		2-1/2"	C	62.0	2.44	90.9	3.58	110.0	4.33	**894 016 438 3**
S841D*		2-9/16"	C	62.0	2.44	93.0	3.66	119.9	4.72	**894 016 438 4**
S843D*		2-11/16"	C	62.0	2.44	97.0	3.82	123.9	4.88	**894 016 438 6**
S844D*		2-3/4"	C	62.0	2.44	98.0	3.86	123.9	4.88	**894 016 438 7**
S845D*		2-13/16"	C	62.0	2.44	100.1	3.94	128.0	5.04	**894 016 438 8**
S846D*		2-7/8"	C	62.0	2.44	102.1	4.02	128.0	5.04	**894 016 438 9**
S847D*		2-15/16"	C	86.1	3.39	103.9	4.09	134.9	5.31	**894 016 439 0**
S848D*		3"	C	86.1	3.39	105.9	4.17	134.9	5.31	**894 016 439 1**





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Sockets and adaptors range

O-Ring & Retaining Pins



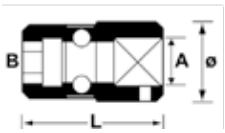
A		ØB		PART NO.
mm	in	mm	in	O-Ring
19.05	3/4	31.7	1 1/4	**C-155467**
19.05	3/4	36.5	1 4/9	**C-155468**
19.05	3/4	41.3	1 5/8	**C-134690**
19.05	3/4	44.4	1 3/4	**C-134691**
19.05	3/4	50.8	2	**C-155585**
25.4	1	44.4	1 3/4	**C-155470**
25.4	1	50.8	2	**C-155471**
25.4	1	54.0	2 1/8	**C-155472**
25.4	1	57.1	2 1/4	**C-134692**
25.4	1	63.5	2 1/2	**C-155473**
38.1	1 1/2	73.0	2 7/8	**C-134693**
38.1	1 1/2	85.7	3 3/8	**C-134694**
38.1	1 1/2	98.4	3 7/8	**C-134695**
38.1	1 1/2	111.1	4 3/8	**C-134696**

Bit Adaptors

A	B	L		Ø MAX		RETENTION	PART NO.
		mm	in	mm	in		
3/8"	Hex 1/4" (D6.3)*	32	1.26	16	0.63	Ball retention	**21792**
3/8"	Hex 1/4" (F6.3)**	46	1.81	22	0.87	Q/R	**108052**
1/2"	Hex 1/4" (D6.3)*	45	1.77	22	0.87	Q/R	**615 812 306 0**

*Insert **Direct

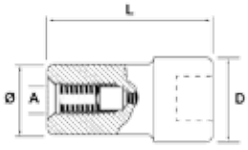




Stud Runners

A	B	L		Ø		D		PART NO.
		mm	in	mm	in	mm	in	
3/8"	M5 x 80	50	2	15	0.59	19	0.75	**615 811 727 0**
3/8"	M6 x 100	50	2	15	0.59	19	0.75	**615 811 728 0**
3/8"	M8 x 125	50	2	17	0.67	19	0.75	**615 811 729 0**
3/8"	M10 x 150	50	2	19	0.75	24	0.94	**615 811 730 0**
1/2"	M6 x 100	55	2.2	22	0.87	24	0.94	**615 811 731 0**
1/2"	M8 x 125	55	2.2	24	0.94	24	0.94	**615 811 732 0**
1/2"	M10 x 125	55	2.2	24	0.94	24	0.94	**615 811 733 0**
1/2"	M10 x 150	55	2.2	24	0.94	24	0.94	**615 811 734 0**
1/2"	M12 x 175	55	2.2	24	0.94	24	0.94	**615 811 735 0**
1/2"	M14 x 150	55	2.2	24	0.94	24	0.94	**615 811 736 0**
1/2"	M14 x 200	55	2.2	24	0.94	24	0.94	**615 811 737 0**
1/2"	M16 x 200	55	2.2	24	0.94	24	0.94	**615 811 738 0**





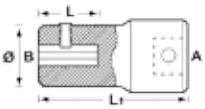
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Sockets and adaptors range

Bit Adaptors - Positive Retention

A	B	L		Ø MAX		L1		PART NO.
		mm	in	mm	in	mm	in	
3/8"	Hex 1/4"	14	0.55	14	0.55	38	1.5	**615 812 206 0**

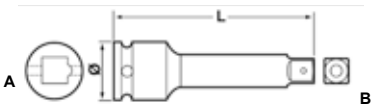




Extension Bars

A	B	L		ØD		PART NO.
		mm	in	mm	in	
3/8"	3/8"	45	1.77	19	0.75	**894 016 598 5**
3/8"	3/8"	75	2.95	19	0.75	**894 016 598 6**
3/8"	3/8"	150	5.91	19	0.75	**894 016 598 7**
1/2"	1/2"	75	2.95	30	1.18	**894 016 599 4**
1/2"	1/2"	127	5	30	1.18	**894 016 599 5**
1/2"	1/2"	178	7.01	30	1.18	**894 016 599 6**
1/2"	1/2"	254	10	30	1.18	**894 016 599 7**
3/4"	3/4"	75	2.95	44	1.73	**894 016 600 4**
3/4"	3/4"	175	6.89	44	1.73	**894 016 600 5**
3/4"	3/4"	254	10	44	1.73	**894 016 600 6**
3/4"	3/4"	330	12.99	44	1.73	**894 016 600 7**
1"	1"	178	7.01	54	2.13	**894 016 601 2**
1"	1"	254	10	54	2.13	**894 016 601 3**
1"	1"	330	12.99	54	2.13	**894 016 601 4**

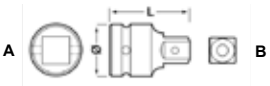




Adaptors

A	B	L		Ø		PART NO.
		mm	in	mm	in	
1/4"	3/8"	13	0.51	26	1.02	**894 016 597 8**
3/8"	1/4"	22	0.87	32	1.26	**894 016 598 3**
3/8"	1/2"	22	0.87	32	1.26	**894 016 598 4**
1/2"	3/8"	25	0.98	38	1.5	**894 016 599 2**
1/2"	3/4"	30	1.18	48	1.89	**894 016 599 3**
3/4"	1/2"	44	1.73	56	2.2	**894 016 600 1**
3/4"	1"	44	1.73	63	2.48	**894 016 600 2**
1"	3/4"	54	2.13	75	2.95	**894 016 600 9**

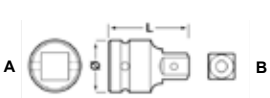




Universal Joints

A	B	L		Ø		PART NO.
		mm	in	mm	in	
1/4"	1/4"	44	1.73	20	0.79	**894 016 598 2**
3/8"	3/8"	51	2.01	27	1.06	**894 016 598 9**
1/2"	1/2"	63	2.48	34	1.34	**894 016 599 8**
3/4"	3/4"	90	3.54	49.2	1.94	**894 016 600 8**
1"	1"	114	4.49	59.2	2.33	**894 016 601 5**

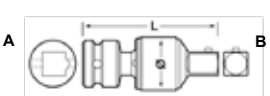




Quick Change Adapters

A	B	L		ØD		PART NO.
		mm	in	mm	in	
3/8"	3/8"	75	2.95	19	0.75	**615 811 589 0**
1/2"	1/2"	100	3.94	25	0.98	**615 811 590 0**
3/4"	3/4"	125	4.92	44	1.73	**615 811 591 0**
3/8"	1/2"	80	3.15	20	0.79	**615 811 592 0**
1/2"	3/8"	75	2.95	25	0.98	**615 811 593 0**
3/4"	1/2"	125	4.92	44	1.73	**615 811 595 0**





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Sleeve drive socket - Pulse tools*

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Drive 3/8”



OUTPUT SIZE A		DIMENSIONS D2		D1		L2		L		PART NO.
mm	in	mm	in	mm	in	mm	in	mm	in	
8	0.31	19	0.75	13	0.51	7	0.28	43	1.69	**615 811 777 0**
10	0.39	19	0.75	16	0.63	7	0.28	43	1.69	**615 811 778 0**
11	0.43	19	0.75	17.5	0.69	8	0.31	43	1.69	**615 811 779 0**
12	0.47	19	0.75	18.5	0.73	9	0.35	43	1.69	**615 811 780 0**
13	0.51	22	0.87	20	0.79	9	0.35	43	1.69	**615 811 781 0**
14	0.55	22	0.87	21	0.83	9	0.35	43	1.69	**615 811 782 0**
17	0.67	22	0.87	25	0.98	12	0.47	43	1.69	**615 811 783 0**
18	0.71	22	0.87	26	1.02	12	0.47	43	1.69	**615 811 784 0**
19	0.75	22	0.87	27	1.06	12	0.47	43	1.69	**615 811 785 0**

*Not suitable for Desoutter PT models



Drive 1/2”



OUTPUT SIZE A		DIMENSIONS D2		D1		L2		L		PART NO.
mm	in	mm	in	mm	in	mm	in	mm	in	
12	0.47	25	0.98	20	0.79	12	0.47	52	2.05	**615 811 788 0**
13	0.51	25	0.98	21	0.83	12	0.47	52	2.05	**615 811 789 0**
14	0.55	25	0.98	22.5	0.89	12	0.47	52	2.05	**615 811 790 0**
15	0.59	30	1.18	23.5	0.93	12	0.47	52	2.05	**615 811 791 0**
16	0.63	30	1.18	25	0.98	12	0.47	52	2.05	**615 811 792 0**
17	0.67	30	1.18	26	1.02	13	0.51	52	2.05	**615 811 793 0**
18	0.71	30	1.18	27.5	1.08	13	0.51	52	2.05	**615 811 794 0**
19	0.75	30	1.18	28.5	1.12	13	0.51	52	2.05	**615 811 795 0**
21	0.83	30	1.18	31	1.22	14	0.55	52	2.05	**615 811 797 0**
22	0.87	30	1.18	32	1.26	14	0.55	52	2.05	**615 811 798 0**
23	0.91	30	1.18	34	1.34	14	0.55	52	2.05	**615 811 799 0**
24	0.94	30	1.18	35	1.38	15	0.59	52	2.05	**615 811 800 0**
25	0.98	30	1.18	36	1.42	15	0.59	57	2.24	**615 811 801 0**
27	1.06	30	1.18	38.5	1.52	17	0.67	57	2.24	**615 811 803 0**
30	1.18	30	1.18	42	1.65	18	0.71	57	2.24	**615 811 806 0**
32	1.26	30	1.18	44	1.73	20	0.79	62	2.44	**615 811 807 0**



3/8” Hexagonal Drives

OUTPUT SIZE A		DIMENSIONS D2		L1		L		PART NO.
mm	in	mm	in	mm	in	mm	in	
4	0.16	22	0.87	11	0.43	75	2.95	**615 811 824 0**
5	0.20	22	0.87	11	0.43	75	2.95	**615 811 825 0**
6	0.24	22	0.87	11	0.43	75	2.95	**615 811 826 0**
8	0.31	22	0.87	16	0.63	75	2.95	**615 811 827 0**
10	0.39	22	0.87	16	0.63	75	2.95	**615 811 828 0**





1/2” Hexagonal Drives

OUTPUT SIZE A		DIMENSIONS D2		L1		L		PART NO.
mm	in	mm	in	mm	in	mm	in	
6	0.24	25	0.98	15	0.59	75	2.95	**615 811 829 0**
8	0.31	25	0.98	25	0.98	75	2.95	**615 811 830 0**
10	0.39	25	0.98	25	0.98	75	2.95	**615 811 831 0**
17	0.67	25	0.98	25	0.98	75	2.95	**615 811 833 0**
19	0.75	25	0.98	25	0.98	75	2.95	**615 811 834 0**





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Internal Torx

DRIVE A	OUTPUT SIZE TORX B	DIMENSIONS						PART NO.
		D2		L1		L		
		mm	in	mm	in	mm	in	
3/8"	T20	22	0.87	2.8	0.11	75	2.95	**615 811 841 0**
3/8"	T25	22	0.87	3	0.12	75	2.95	**615 811 842 0**
3/8"	T30	22	0.87	3.8	0.15	75	2.95	**615 811 843 0**
3/8"	T40	22	0.87	3.8	0.15	75	2.95	**615 811 844 0**
1/2"	T40	25	0.98	3.8	0.15	75	2.95	**615 811 845 0**





External Torx

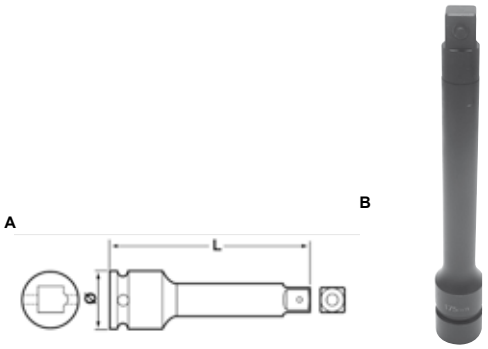
DRIVE A	OUTPUT B	DIMENSIONS								PART NO.
		D2		D1		L2		L		
		mm	in	mm	in	mm	in	mm	in	
3/8"	E8	19	0.75	11	0.43	6.5	0.26	43	1.69	**615 811 846 0**
3/8"	E10	19	0.75	13	0.51	7.5	0.30	43	1.69	**615 811 847 0**
3/8"	E12	19	0.75	15.5	0.61	8.5	0.33	43	1.69	**615 811 848 0**
3/8"	E14	22	0.87	17.5	0.69	10	0.39	43	1.69	**615 811 849 0**
1/2"	E10	25	0.98	14	0.55	7.5	0.30	52	2.05	**615 811 8500**
1/2"	E12	25	0.98	16	0.63	8.5	0.33	52	2.05	**615 811 851 0**
1/2"	E14	25	0.98	18	0.71	10	0.39	52	2.05	**615 811 852 0**
1/2"	E16	25	0.98	20	0.79	11	0.43	52	2.05	**615 811 853 0**
1/2"	E18	25	0.98	22	0.87	12.5	0.49	52	2.05	**615 811 854 0**
3/4"	E18	44	1.73	26	1.02	12.5	0.49	65	2.56	**615 811 855 0**
3/4"	E20	44	1.73	28	1.10	14	0.55	65	2.56	**615 811 856 0**
3/4"	E22	44	1.73	31	1.22	15	0.59	65	2.56	**615 811 857 0**
3/4"	E24	44	1.73	33	1.30	16.5	0.65	65	2.56	**615 811 858 0**





Extension Bars

DRIVE A	OUTPUT B	DIMENSIONS				PART NO.
		D2		L		
		mm	in	mm	in	
3/8"	3/8	22	0.87	75	2.95	**615 811 859 0**
3/8"	3/8	22	0.87	125	4.92	**615 811 861 0**
3/8"	3/8	22	0.87	250	9.84	**615 811 864 0**
1/2"	1/2	-	-	75	2.95	**615 811 865 0**
1/2"	1/2	-	-	125	4.92	**615 811 867 0**
1/2"	1/2	-	-	175	6.89	**615 811 869 0**
1/2"	1/2	25	0.98	250	9.84	**615 811 871 0**
3/4"	3/4	44	1.73	175	6.89	**615 811 872 0**
3/4"	3/4	44	1.73	250	9.84	**615 811 873 0**
3/4"	3/4	44	1.73	330	12.99	**615 811 874 0**



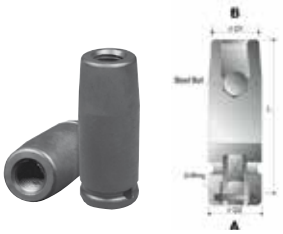
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Sleeve drive socket - Pulse tools*

For Desoutter PTF models and all Japanese pulse tools

Stud setter sockets

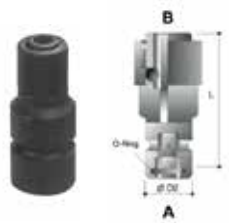
DRIVE A	OUTPUT B	DIMENSIONS						PART NO.
		D2		D1		L		
		mm	in	mm	in	mm	in	
3/8"	M6 x P1	22	0.87	12.5	0.49	50	1.97	**615 811 876 0**
3/8"	M8 x P1.25	22	0.87	14.5	0.57	50	1.97	**615 811 877 0**
3/8"	M10 x P1.5	22	0.87	17	0.67	50	1.97	**615 811 878 0**
1/2"	M6 x P1	25	0.98	13	0.51	75	2.95	**615 811 879 0**
1/2"	M8 x P1.25	25	0.98	15	0.59	75	2.95	**615 811 880 0**
1/2"	M10 x P1.5	25	0.98	17	0.67	75	2.95	**615 811 881 0**
1/2"	M12 x P1.75	25	0.98	19	0.75	75	2.95	**615 811 882 0**
1/2"	M14 X P2	25	0.98	22	0.87	75	2.95	**615 811 883 0**
1/2"	M16 x P2	30	1.18	27	1.06	75	2.95	**615 811 884 0**



Bit adaptors

DRIVE A	OUTPUT B	DIMENSIONS				PART NO.
		D2		L		
		mm	in	mm	in	
3/8"	1/4	22	0.87	52	2.05	**615 811 885 0**
1/2"	1/4	25	0.98	60	2.36	**615 811 887 0**

*Not suitable for Desoutter PT models



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Safety Instructions

General Safety Instructions for the Operation of Power Tools

The goal of Desoutter is to produce tools that help the operator work safely and efficiently.

The most important safety device for this or any other tool is the operator. Care and good judgement are the best protection against injury.

All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

Individuals should look for and obey Caution, Warning and Danger signs placed on tools and displayed in the workplace. Operators should read and follow safety instructions packed with each tool. For a copy of these instructions, contact your local Desoutter representative.



Learn how each tool works. Even if you have previously used similar tools, carefully check out each tool before you use it. Get the 'feel' of it and know its capabilities, limitations, potential hazards, how it operates and how it stops.

All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787, 8NTC1.2.

Sound levels +/- 3dB(A)* are measured in accordance with EN ISO15744. Vibration values* are measured in accordance with ISO8662 & ISO28927.

*These declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well upon the exposure time and the physical condition of the user.

We, Desoutter, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites:
http://www.osha.gov (USA) http://europe.osha.eu.int (Europe).



COMPRESSED AIR HAZARDS

- Air under pressure can cause injury. Never point an air hose at yourself or anyone else. Never blow your clothes free of dust with compressed air. Always direct exhaust air away from yourself and others in the work area.
- Always check for damaged or loose hoses and fittings before using an air tool, and replace if necessary. Whipping hoses can cause serious injury.
- Disconnect the tool from the air supply when not in use, before changing accessories, setting the torque, or when making repairs.
- Do not exceed rated air pressure to increase the output of the tool. This could cause injury and shorten tool life.
- Do not assemble quick coupler on the tool. Vibration can cause breakage resulting in a whipping air hose. Instead, use quick couplers on the end of a short leader hose.
- When universal twist couplings are used, lock pins must be installed to prevent accidental hose disconnection.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.



ELECTRICAL HAZARDS

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools and equipment. Unmodifed plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded metal surfaces. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Do not expose electric power tools and equipment to wet conditions.
- Do not operate power tools in explosive atmospheres. Power tools create sparks which may ignite dust, fumes or flammable liquids.
- Have electric power tools and equipment serviced by a qualified repair person using only identical replacement parts.



PROJECTILE HAZARDS

- Always wear impact resistant eye and face protection when involved with or near the operation or repair of tools.



BREATHING HAZARDS

- Proper breathing protection must be worn when working with materials, which produce airborne particles.



NOISE HAZARDS

- Hearing loss can result from prolonged exposure to excessive sound levels.
- Use hearing protection as recommended by your employer or Occupational Health and Safety Regulations.



VIBRATION HAZARDS

- Repetitive work motions, awkward positions, and exposure to vibration may be harmful to your hands and arms.
- If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.



ENTANGLEMENT HAZARDS

- To reduce the risk of injury from entanglement, do not wear loose clothing when using rotating accessories.



ADDITIONAL HAZARDS

- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excessive hose/cord left on the walking or work surface.
- Operators and maintenance personnel must be physically fit to perform job tasks, and handle the bulk, weight and power of the tool.
- Deburring tools should be used to reduce the risk of cuts and abrasions due to burrs.
- Wear gloves to protect hands from sharp edges.

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Safety Instructions

Specific Safety Instructions for Power Tool Groups

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of specific power tool groups.



COMPRESSION TOOLS

- To reduce the risk of injury always keep hands and fingers away from yoke and moving jaws, sets or dies. If possible, hold the tool body with both hands.
- Inspect the yoke daily for cracks. Injury may result if a cracked yoke fails during use.
- All yokes have a life limitation based on cycles and riveting force. This tool and its accessories must not be modified.



DRILLS & TAPPERS

- Keep away from rotating bit and chuck. You can become cut or burned if you come into contact with the drill bit or tap, chips/swarf, or work surface.
- Use intermittent drill feed pressure to avoid long shaved chips/swarf.
- The drill bit or tap can suddenly bind and cause the workpiece or tool to rotate, causing arm and shoulder injuries.
- It is recommended that side handles are used for operator comfort and safety on high torque drilling applications above 4Nm (3 lbft) on straight case tools and 10Nm (7.4 lbft) on pistol grip drills. Drills with a chuck capacity larger than 10mm (3/8») should always be used with a side handle.



PERCUSSIVE TOOLS

(Riveting Hammers, Air Scribe)

- All chisels, rivet sets and other associated accessories should be checked for cracks, excessive wear, or other physical damage before each use. Accessories that show signs of damage should be replaced immediately.
- Never use a tool without the proper accessory retainer.



PULSE TOOLS

- Never use hand sockets or accessories. Use only impact sockets and accessories in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- When using a universal joint, never operate the tool off the work. It may run too fast and cause the joint to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adaptors absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.
- For tools using the pin and o-ring socket retainer, use the o-ring to securely retain the socket pin or use a one-piece retainer ring to retain the socket.
- Serious injury can result from overtorqued or under-torqued fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

NOTE: So-called 'click' torque wrenches do not check for potentially dangerous over-torqued conditions.



ANGLE WRENCHES

- Never use hand sockets or accessories Use only power drive sockets and accessories.
- To reduce the risk of injury, always support the handle securely in the direction opposite of the spindle rotation to minimize torque reaction.



ACCESSORIES

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.



OTHER TOOLS

(e.g. Screwdrivers,Shears, Saws, etc.)

- Specific instructions/warnings affecting this group of tools are contained in product-specific documents accompanying each product.



ABRASIVE TOOLS

- Before grinding, test grinding wheel by briefly running tool at full throttle. Be sure to use a barrier (such as under a heavy work table) to protect yourself from possible broken wheel parts.
- Never mount a grinding wheel on a sander.
- Never use a grinding wheel rated at a speed lower than the air grinder speed.
- All grinding wheels and polishing/sanding accessories should be checked for cracks or other damage before mounting and use.
- Always use the recommended wheel guard to prevent injury when performing grinding operations. If a guard has withstood wheel or disk breakage, it must be replaced.
- Position a guard between the grinding wheel or disc and the operator.
- Use barriers to protect others from fragments and grinding sparks.
- Make sure grinding wheels are mounted according to manufacturer's specifications: always use correct mounting flanges.
- Never tamper with or remove a speed governor from a tool to make it run faster. Periodically check tool speed with a tachometer.

For complete safety instructions, please see the documentation provided with each tool.

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Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
4734	4734	217	3	22	77	
05-X-80000	258984	211	<2.5		76	
2A89-A-1300	1225434	102	<2.5		64	
2A89-A-1300	1223154	102	<2.5		64	
2A89-A-400	1225694	102	<2.5		64	
2A89-A-400	1223314	102	<2.5		64	
2A89-A-700	1225514	102	<2.5		64	
2A89-A-700	1223234	102	<2.5		64	
2H16-L-160/500-B18	1434264	196	<2.5		76	
2H16-L-90/250-B18	1434344	196	<2.5		76	
Air Line Network		275				
Air Motors		270				
ALPHA D1	615 935 140 0	135				
ALPHA D16	615 935 142 0	135				
ALPHA D5	615 935 141 0	135				
ASD - Automatic screw dispenser		177				
Auto Feed Drills - AFD		268				
Automatic Drilling Unit - Seti-Tec		180				
AV101	128534	276				
Balancers		175				
CP0214ANBEL	T012343	201	<2.5		90	
CP0214ANFEL	T018671	201	<2.5		90	
CP0214ANGEL	T018672	201	<2.5		90	
CP0214ANPEL	T019138	201	<2.5		90	
CP0214CELEL	T012344	201	<2.5		90	
CP0214CENEL	T018677	201	<2.5		90	
CP0214ENBEL	T018678	201	<2.5		96	
CP0214ENFEL	T018163	201	<2.5		96	
CP0214ENGEL	T018164	201	<2.5		90	
CP0214ENPEL	T018997	201	<2.5		96	
CP0214FALEL	T013152	201	<2.5		90	
CP0214FANEL	T018430	201	<2.5		90	
CP0214FAXEL	T022528	201	<2.5		90	
CP0214KETEL	T023475	201	<2.5		90	
CP0214SETEL	T023474	201	<2.5		90	
CP0341CUDEL	T022512	201	<2.5		90	
CP0341CUNEL	T022493	201	<2.5		90	
CP0351ASGEL	T007783	201	<2.5		96	
CP0351ASKEL	T007773	201	<2.5		96	
CP0351ASVEL	T009582	201	<2.5		96	
CP0351-CABH-DY	T020475	204	<2.5		96	
CP0351CUDEL	T008955	201	<2.5		90	
CP0351CUNEL	T007772	201	<2.5		90	
CP0351ESGEL	T012602	201	<2.5		96	
CP0351ESKEL	T012603	201	<2.5		96	
CP0351ESREL	T012604	201	<2.5		96	
CP0351ESVEL	T012605	201	<2.5		96	
CP0351FUDEL	T012608	201	<2.5		90	
CP0351PU	205 146 721 4	204	<2.5		96	
CP4444-1	205 147 938 4	206	4	1.6	98	109
CP-4444-RURAB	T022961	206	18.9	9.1	94	
CP-4444-RUSAB	T022962	206	13.9	5.7	94	
CP-4444-RUTAB	T022963	206	28.8	10.2	96	
CP-4447-RUSAB	T022965	206	14.3	4.7	96	
CP-4447-RUTAB	T022912	206	12.6	4.5	92	
CP-4447-RUVAB	T022964	206	10.0	4.8	92	
CP-4450-2	T025189	206	10.2	5.4	94	
CP-4450-3	T025190	206	10.1	4.2	94	
CP-4450-4	T025191	206	12.0	6.5	95	
CP-4475-3	T025241	206	14.5	6.5	95	
CP-4475-4	T025242	206	11.1	4.7	95	
CP-4475-6	T025243	206	7.4	3.2	94	
Customized solutions		143				
CVI3 Function	615 932 690 0	29				
CVI3 Vision	615 932 691 0	29				
CVIC II-H2	615 932 677 0	71				
CVIC II-H4	615 932 679 0	71				
CVIC II-L2	615 932 676 0	71				
CVIC II-L4	615 932 678 0	71				
CVIL II	615 932 680 0	60				
CVIL II M	615 932 682 0	64				
CVIL II S	615 932 683 0	64				
CVIR II	615 932 681 0	64				
CVIR II H4	615 932 685 0	54				
CVIXS	615 932 720 0					
D144-T-3300	1273234	276	<2.5		76	
D172-L	615 170 520 0	276	11	3.8	76	
D53-100	615 810 705 0	154				
D53-100 X/Y AXLE	615 397 878 0	158				
D53-1000	615 811 664 0	156				
D53-1000XL	615 811 665 0	156				

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D53-100S	615 810 710 0	154				
D53-100S X/Y AXLE	615 397 883 0	158				
D53-12	615 810 701 0	154				
D53-12 X/Y AXLE	615 397 875 0	158				
D53-12S	615 810 707 0	154				
D53-12S X/Y AXLE	615 397 880 0	158				
D53-150	615 811 658 0	156				
D53-150XL	615 811 659 0	156				
D53-25	615 810 702 0	154				
D53-25 X/Y AXLE	615 397 876 0	158				
D53-25S	615 810 708 0	154				
D53-25S X/Y AXLE	615 397 881 0	158				
D53-25X	615 810 703 0	154				
D53-300	615 811 660 0	156				
D53-300XL	615 811 661 0	156				
D53-5	615 810 700 0	154				
D53-5 X/Y AXLE	615 397 874 0	158				
D53-50	615 810 704 0	154				
D53-50 X/Y AXLE	615 397 877 0	158				
D53-500	615 811 662 0	156				
D53-500XL	615 811 663 0	156				
D53-50S	615 810 709 0	154				
D53-50S X/Y AXLE	615 397 882 0	158				
D53-5S	615 810 706 0	154				
D53-5S X/Y AXLE	615 397 879 0	158				
D57	408903	172				
D57X	408913	172				
D58	408923	172				
D59	408933	172				
Delta 1D	615 935 101 0	125				
Delta 6D	615 935 102 0	125				
Delta 7D	615 935 103 0	125				
Delta Cart		140				
Delta QC Software		141				
Delta Wrench 150	615 165 772 0	128				
Delta Wrench 150 ZigBee	615 165 801 0	125				
Delta Wrench 150 Wlan	615 165 782 0	130				
Delta Wrench 150-A	615 165 776 0	128				
Delta Wrench 150-A Short	615 165 767 0	128				
Delta Wrench 150-A Short Wlan	615 165 789 0	130				
Delta Wrench 150-A Wlan	615 165 786 0	130				
Delta Wrench 150-A ZigBee	615 165 806 0	131				
Delta Wrench 150-A ZigBee Short	615 165 810 0	131				
Delta Wrench 30	615 165 771 0	128				
Delta Wrench 30 Wlan	615 165 781 0	130				
Delta Wrench 30 ZigBee	615 165 800 0	131				
Delta Wrench 30-A	615 165 775 0	128				
Delta Wrench 30-A ZigBee	615 165 805 0	131				
Delta Wrench 30-A Wlan	615 165 785 0	130				
Delta Wrench 400	615 165 773 0	128				
Delta Wrench 400 Wlan	615 165 783 0	130				
Delta Wrench 400 ZigBee	615 165 802 0	131				
Delta Wrench 400-A	615 165 777 0	128				
Delta Wrench 400-A Wlan	615 165 787 0	130				
Delta Wrench 400-A ZigBee	615 165 807 0	131				
Delta Wrench 800	615 165 774 0	128				
Delta Wrench 800 ZigBee	615 165 803 0	131				
Delta Wrench 800 Wlan	615 165 784 0	130				
Delta Wrench 800-A	615 165 778 0	128				
Delta Wrench 800-A Wlan	615 165 788 0	130				
Delta Wrench 800-A ZigBee	615 165 808 0	131				
Digital Rotary transducers - DRT		145				
Digital Static Transducers - DST		138				
DR300-T1000	205 147 480 4	194				
DR300-T1000-C10	205 147 481 4	194				
DR300-T1000-QR	615 176 067 0	186				
DR300-T1000-S5-30		188				
DR300-T1000-S5-360		188				
DR300-T1000-S5-45		188				
DR300-T1000-S5-90		188				
DR300-T1000-S6-360		189				
DR300-T1000-S6-90		189				
DR300-T1000-T5-30	615 176 073 0	188				
DR300-T1000-T5-360	615 176 084 0	188				
DR300-T1000-T5-45	615 176 091 0	188				
DR300-T1000-T5-90	615 176 078 0	188				
DR300-T1000-T6-360	615 176 105 0	189				
DR300-T1000-T6-90	615 176 098 0	189				
DR300-T2000	205 147 483 4	194				
DR300-T20000	205 147 495 4	194				
DR300-T20000-C8	205 147 496 4	194				

VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	
<2.5		75	

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DR300-T2000-QR	615 176 068 0	186	<2.5		75	
DR300-T2000-S5-30		188	<2.5		75	
DR300-T2000-S5-360		188	<2.5		75	
DR300-T2000-S5-45		188	<2.5		75	
DR300-T2000-S5-90		188	<2.5		75	
DR300-T2000-S6-360		189	<2.5		75	
DR300-T2000-T5-30	615 176 073 0	188	<2.5		75	
DR300-T2000-T5-360	615 176 085 0	188	<2.5		75	
DR300-T2000-T5-45	615 176 092 0	188	<2.5		75	
DR300-T2000-T5-90	615 176 079 0	188	<2.5		75	
DR300-T2000-T6-360	615 176 106 0	189	<2.5		75	
DR300-T2000-T6-90	615 176 099 0	189	<2.5		75	
DR300-T2000-THD-90	615 176 111 0	189	<2.5		75	
DR300-T3000-QR	205 147 525 4	198	<2.5		75	
DR300-T3000-S5-30	615 176 075 0	188	<2.5		75	
DR300-T3000-S5-360	615 176 087 0	188	<2.5		75	
DR300-T3000-S5-45	615 176 094 0	188	<2.5		75	
DR300-T3000-S5-90	615 176 081 0	188	<2.5		75	
DR300-T3000-S6-360	615 176 108 0	189	<2.5		75	
DR300-T3000-S6-90	615 176 101 0	189	<2.5		75	
DR300-T3000-T5-30	615 176 074 0	188	<2.5		75	
DR300-T3000-T5-360	615 176 085 0	188	<2.5		75	
DR300-T3000-T5-45	615 176 093 0	188	<2.5		75	
DR300-T3000-T5-90	615 176 080 0	188	<2.5		75	
DR300-T3000-T6-360	615 176 107 0	189	<2.5		75	
DR300-T3000-T6-90	615 176 100 0	189	<2.5		75	
DR300-T4500	205 147 489 4	194	<2.5		75	
DR300-T4500-C8	205 147 490 4	194	<2.5		75	
DR300-T4500-QR	615 176 070 0	186	<2.5		75	
DR300-T4500-S5-30		188	<2.5		75	
DR300-T4500-S5-360		188	<2.5		75	
DR300-T4500-S5-45		188	<2.5		75	
DR300-T4500-S5-90		188	<2.5		75	
DR300-T4500-S6-360		189	<2.5		75	
DR300-T4500-S6-90		189	<2.5		75	
DR300-T4500-T5-30	615 176 076 0	188	<2.5		75	
DR300-T4500-T5-45	615 176 095 0	188	<2.5		75	
DR300-T4500-T5-360	615 176 088 0	188	<2.5		75	
DR300-T4500-T5-90	615 176 082 0	188	2.6	1.4	75	
DR300-T4500-T6-360	615 176 109 0	189	<2.5		75	
DR300-T4500-T6-90	615 176 102 0	189	<2.5		75	
DR300-T550	205 147 477 4	194	<2.5		75	
DR300-T5500	205 147 492 4	194	<2.5		75	
DR300-T5500-C8	205 147 493 4	194	<2.5		75	
DR300-T5500-QR	615 176 071 0	186	<2.5		75	
DR300-T5500-S5-30		188	<2.5		75	
DR300-T5500-S5-360		188	<2.5		75	
DR300-T5500-S5-45		188	<2.5		75	
DR300-T5500-S5-90		188	2.6	1.4	75	
DR300-T5500-S6-360		189	<2.5		75	
DR300-T5500-S6-90		189	<2.5		75	
DR300-T5500-T5-30	615 176 077 0	188	<2.5		75	
DR300-T5500-T5-360	615 176 089 0	188	<2.5		75	
DR300-T5500-T5-45	615 176 096 0	188	<2.5		75	
DR300-T5500-T5-90	615 176 083 0	188	<2.5		75	
DR300-T5500-T6-360	615 176 110 0	189	<2.5		75	
DR300-T5500-T6-90	615 176 103 0	189	<2.5		77	
DR300-T550-C10	205 147 478 4	194	<2.5		77	
DR300-T550-QR	615 176 066 0	186	<2.5		77	
DR300-T550-S5-45		188	<2.5		77	
DR300-T550-S6-360		189	<2.5		75	
DR300-T550-S6-90		189	<2.5		75	
DR300-T550-T5-45	615 176 090 0	188	<2.5		75	
DR300-T550-T6-360	615 176 104 0	189	<2.5		77	
DR300-T550-T6-90	205 147 583 4	189	<2.5		77	
DR300-T900-THD-90	615 176 112 0	189	<2.5		75	
DR350-P1000	205 147 355 4	192	<2.5		77	
DR350-P1000-C10	205 147 244 4	192	<2.5		77	
DR350-P1000-QR	205 147 981 4	198	<2.5		75	
DR350-P2000	205 147 356 4	192	<2.5		77	
DR350-P20000	205 147 359 4	192	<2.5		75	
DR350-P20000-C8	205 147 252 4	192	<2.5		75	
DR350-P2000-C8	205 147 246 4	192	<2.5		75	
DR350-P3000	205 147 357 4	192	<2.5		75	
DR350-P3000-C8	205 147 248 4	192	<2.5		75	
DR350-P3000-QR	205 147 528 4	186	<2.5		75	
DR350-P4500	205 147 384 4	192	<2.5		75	
DR350-P4500-C8	205 147 382 4	192	<2.5		75	
DR350-P550	205 147 354 4	192	<2.5		75	
DR350-P5500	205 147 358 4	192	<2.5		75	
DR350-P5500-C8	205 147 250 4	192	<2.5		75	
DR350-P5500-QR	205 147 984 4	186	<2.5		75	
DR350-P550-C10	205 147 242 4	192	<2.5		75	
DR500-P1000	205 147 660 4	192	<2.5		75	
DR500-P1000-C10	205 147 658 4	192	<2.5		75	
DR500-P1400	205 147 663 4	192	<2.5		75	
DR500-P1400-C10	205 147 661 4	192	<2.5		75	
DR500-P1800	205 147 666 4	192	<2.5		75	
DR500-P1800-C10	205 147 664 4	192	<2.5		75	
DR500-P18500	205 147 678 4	192	<2.5		75	
DR500-P18500-C8	205 147 676 4	192	<2.5		75	
DR500-P2700	205 147 669 4	192	2.6	1.6	75	
DR500-P2700-C8	205 147 667 4	192	2.6	1.6	75	
DR500-P400	205 147 654 4	192	<2.5		75	
DR500-P400-C13	205 147 652 4	192	<2.5		75	
DR500-P4300	205 147 672 4	192	<2.5		75	
DR500-P4300-C8	205 147 670 4	192	<2.5		75	
DR500-P5800	205 147 675 4	192	<2.5		75	
DR500-P5800-C8	205 147 673 4	192	<2.5		75	
DR500-P600	205 147 657 4	192	<2.5		75	
DR500-P600-C13	205 147 655 4	192	<2.5		75	
DR750-P1300	205 147 415 4	192	<2.5		81	
DR750-P1300-C10	1465084	192	<2.5		81	
DR750-P1300-JT1	205 146 662 4	192	<2.5		81	
DR750-P20000	205 147 458 4	192	<2.5		81	
DR750-P20000-C8	205 146 659 4	192	<2.5		81	
DR750-P20000-JT1	205 146 667 4	192	<2.5		81	
DR750-P2700	205 147 416 4	192	<2.5		81	
DR750-P2700-C10	1465094	192	<2.5		81	
DR750-P2700-JT1	205 146 663 4	192	<2.5		81	
DR750-P3300	205 147 455 4	192	<2.5		81	
DR750-P3300-C10	1465104	192	<2.5		81	
DR750-P3300-JT1	205 146 664 4	192	<2.5		81	
DR750-P400	205 147 451 4	192	<2.5		81	
DR750-P400-C13	205 146 658 4	192	<2.5		81	
DR750-P400-JT1	205 146 660 4	192	<2.5		81	
DR750-P4100	205 147 456 4	192	<2.5		81	
DR750-P4100-C8	1465114	192	<2.5		81	
DR750-P6000	205 147 417 4	192	<2.5		81	
DR750-P6000-C8	1465124	192	<2.5		81	
DR750-P6000-JT1	205 146 666 4	192	<2.5		81	
DR750-P750	205 147 452 4	192	<2.5		81	
DR750-P750-C13	1465074	192	<2.5		81	
DR750-P750-JT1	205 146 661 4	192	<2.5		81	
Dust Extraction systems		247				
DWTA 150	615 165 761 0	126				
DWTA 30	615 165 760 0	126				
DWTA 400	615 165 762 0	126				
DWTA Vision 800-A	615 165 788 0	130				
EAB 15-900	615 165 731 0	23	<2.5		<70	
EAB 26-560	615 165 732 0	23	<2.5		<70	
EAB 32-410	615 165 733 0	23	<2.5		<70	
EAB 45-330	615 165 734 0	23	<2.5		<70	
EAB 50-450	615 165 735 0	23	<2.5		<70	
EAB 60-370	615 165 736 0	23	<2.5		<70	
EAB 75-300	615 165 737 0	23	<2.5		<70	
EAB 95-240	615 165 738 0	23	<2.5		<70	
EABA 15-900	615 165 961 0	23	<2.5		<70	
EABA 26-560	615 165 962 0	23	<2.5		<70	
EABA 32-410	615 165 963 0	23	<2.5		<70	
EABA 45-330	615 165 964 0	23	<2.5		<70	
EABA 50-450	615 165 965 0	23	<2.5		<70	
EABA 60-370	615 165 966 0	23	<2.5		<70	
EABA 75-300	615 165 967 0	23	<2.5		<70	
EABA 95-240	615 165 968 0	23	<2.5		<70	
EABC 15-900	615 165 050 0	38	<2.5		<70	
EABC 26-560	615 165 051 0	38	<2.5		<70	
EABC 32-410	615 165 052 0	38	<2.5		<70	
EABC 45-330	615 165 053 0	38	<2.5		<70	
EABC 50-450	615 165 054 0	38	<2.5		<70	
EABC 60-370	615 165 055 0	38	<2.5		<70	
EABC 75-300	615 165 056 0	38	<2.5		<70	
EABC 95-240	615 165 057 0	38	<2.5		<70	
EAD105-500	615 165 613 0	33	<2.5		<70	
EAD160-430	615 165 681 0	33	<2.5		<70	
EAD200-370	615 165 682 0	33	<2.5		<70	
EAD20-1300	615 165 606 0	33	<2.5		<70	
EAD280-260	615 165 683 0	33	<2.5		<70	
EAD280-370	615 165 684 0	33	<2.5		<70	
EAD32-900	615 165 607 0	33	<2.5		<70	
EAD440-250	615 165 685 0	33	<2.5		<70	
EAD50-900	615 165 609 0	33	<2.5		<70	

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Vibration level (m/s²) - Noise level (dB(A))

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EAD660-160	615 165 686 0	33	<2.5		<70	
EAD70-800	615 165 611 0	33	<2.5		<70	
EAD80-650	615 165 612 0	33	<2.5		<70	
ECA115	615 165 106 0	78	<2.5		<70	
ECA125	615 165 188 0	78	<2.5		<70	
ECA15	615 165 192 0	78	<2.5		<70	
ECA150	615 165 189 0	78	<2.5		<70	
ECA20	615 165 100 0	78	<2.5		<70	
ECA200	615 165 190 0	78	<2.5		<70	
ECA30	615 165 101 0	78	<2.5		<70	
ECA40	615 165 102 0	78	<2.5		<70	
ECA60	615 165 103 0	78	<2.5		<70	
ECA70	615 165 104 0	78	<2.5		<70	
ECA90	615 165 105 0	78	<2.5		<70	
ECD120	615 165 097 0	79	<2.5		<70	
ECD20	615 165 093 0	79	<2.5		<70	
ECD30	615 165 094 0	79	<2.5		<70	
ECD5	615 165 068 0	79	<2.5		<70	
ECD50	615 165 095 0	79	<2.5		<70	
ECD70	615 165 096 0	79	<2.5		<70	
ECP100-R	615 165 523 0	76	<2.5		<70	
ECP10L	615 165 201 0	77	<2.5		<70	
ECP10LT	615 165 233 0	77	<2.5		<70	
ECP1500	615 165 524 0	78	<2.5		<70	
ECP190	615 165 399 0	78	<2.5		<70	
ECP190-R	615 165 451 0	78	<2.5		<70	
ECP20L	615 165 202 0	77	<2.5		<70	
ECP20LT	615 165 234 0	77	<2.5		<70	
ECP20S	615 165 203 0	77	<2.5		<70	
ECP2100	615 165 525 0	78	<2.5		<70	
ECP3000	615 165 526 0	78	<2.5		<70	
ECP30S	615 165 204 0	77	<2.5		<70	
ECP3L	615 165 199 0	77	<2.5		<70	
ECP3LT	615 165 231 0	77	<2.5		<70	
ECP4000	615 165 527 0	78	<2.5		<70	
ECP40S	615 165 262 0	77	<2.5		<70	
ECP550	615 165 400 0	78	<2.5		<70	
ECP550-R	615 165 452 0	78	<2.5		<70	
ECP5L	615 165 200 0	77	<2.5		<70	
ECP5L	615 165 200 0	77	<2.5		<70	
ECP5LT	615 165 232 0	77	<2.5		<70	
ECP5LT	615 165 232 0	77	<2.5		<70	
ECP950	615 165 401 0	78	<2.5		<70	
ECP950-R	615 165 453 0	78	<2.5		<70	
ECS06	615 165 442 0	74	<2.5		<70	
ECS06-M20	615 165 454 0	74	<2.5		<70	
ECS10	615 165 444 0	74	<2.5		<70	
ECS10	615 165 458 0	74	<2.5		<70	
ECS16	615 165 459 0	74	<2.5		<70	
ECS16-M20	615 165 460 0	74	<2.5		<70	
ECS2	615 165 443 0	74	<2.5		<70	
ECS2-M20	615 165 455 0	74	<2.5		<70	
ECS4	615 165 445 0	74	<2.5		<70	
ECS4-M20	615 165 456 0	74	<2.5		<70	
ECS7	615 165 446 0	74	<2.5		<70	
ECS7-M20	615 165 457 0	74	<2.5		<70	
ECSA10	615 165 449 0	74	<2.5		<70	
ECSA2	615 165 447 0	74	<2.5		<70	
ECSA7	615 165 448 0	74	<2.5		<70	
ECSF06	615 165 501 0	80	<2.5		<70	
ECSF10	615 165 505 0	80	<2.5		<70	
ECSF16	615 165 506 0	80	<2.5		<70	
ECSF2	615 165 502 0	80	<2.5		<70	
ECSF4	615 165 503 0	80	<2.5		<70	
ECSF7	615 165 504 0	80	<2.5		<70	
EFDA107-450	615 165 862 0	44	<2.5		<70	
EFDA40-55	615 165 858 0	44	<2.5		<70	
EFDA51-110		44	<2.5		<70	
EFDA63-190	615 165 860 0	44	<2.5		<70	
EFDA76-300		44	<2.5		<70	
EFDE43-15	615 165 865 0	42	<2.5		<70	
EFDE43-30	615 165 866 0	42	<2.5		<70	
EFDE43-45	615 165 867 0	42	<2.5		<70	
EFDE43-8	615 165 864 0	42	<2.5		<70	
EFDE51-135	615 165 869 0	42	<2.5		<70	
EFDE51-70	615 165 868 0	42	<2.5		<70	
EFDE60-175	615 165 871 0	42	<2.5		<70	
EFDE60-260	615 165 872 0	42	<2.5		<70	
EFDE60-95	615 165 870 0	42	<2.5		<70	
EFDS43-15	615 165 908 0	42	<2.5		<70	
EFDS43-30	615 165 909 0	42	<2.5		<70	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
EFDS43-45	615 165 910 0	42	<2.5		<70	
EFDS43-8	615 165 907 0	42	<2.5		<70	
EFDS51-135	615 165 912 0	42	<2.5		<70	
EFDS51-70	615 165 911 0	42	<2.5		<70	
EFDS60-175	615 165 914 0	42	<2.5		<70	
EFDS60-250	615 165 915 0	42	<2.5		<70	
EFDS60-95	615 165 913 0	42	<2.5		<70	
EFDS80-330	615 165 033 0	42				
EFDS80-450	615 165 034 0	42				
EFDS80-680	615 165 035 0	42				
EFDS80-950	615 165 036 0	42				
EFDS106-1100	615 165 037 0	42				
EFDS106-1600	615 165 038 0	42				
EFDS106-1900	615 165 039 0	42				
EID120-660	615 165 677 0	34	<2.5		<70	
EID170-670	615 165 678 0	34	<2.5		<70	
EID20-1200-4Q	615 165 992 0	34	<2.5		<70	
EID20-900-OE12-L31-H14-W38	615 165 835 0	34				
EID25-1200	615 165 614 0	34	<2.5		<70	
EID270-410	615 165 679 0	34	<2.5		<70	
EID28-677-CE13-L45-H15-W30	615 165 837 0	34				
EID32-680-OE14-L34-H18-W40	615 165 836 0	34				
EID32-900	615 165 615 0	34	<2.5		<70	
EID44-1200	615 165 616 0	34	<2.5		<70	
EID65-900	615 165 617 0	34	<2.5		<70	
EID75-800	615 165 618 0	34	<2.5		<70	
ELB 12-600-P	615 165 418 0	19	<2.5		<70	
ELB 2.5-1250-P	615 165 415 0	19	<2.5		<70	
ELB 6-670-P	615 165 440 0	19	<2.5		<70	
ELB 6-900-P	615 165 416 0	19	<2.5		<70	
ELB 8-670-P	615 165 417 0	19	<2.5		<70	
ELC 12-600-P-Z	615 165 704 0	19	<2.5		<70	
ELC 15-480-A-Z	615 165 708 0	19	<2.5		<70	
ELC 30-300-A-Z	615 165 709 0	19	<2.5		<70	
ELC 45-180-A-Z	615 165 710 0	19	<2.5		<70	
ELC 6-1000-P-Z	615 165 701 0	19	<2.5		<70	
ELC 7-360-A-Z	615 165 726 0	19	<2.5		<70	
ELC 7-880-A-Z	615 165 707 0	19	<2.5		<70	
ELC 8-400-P-Z	615 165 702 0	19	<2.5		<70	
ELC 8-800-P-Z	615 165 703 0	19	<2.5		<70	
ELRT025-P4600-10S	615 165 838 0	61	<2.5		<70	
ELRT025-P4600-4Q	615 165 890 0	61	<2.5		<70	
ELRT025T-10S-5	615 165 040 0	61				
ELRT025T-10S-1	615 165 047 0	61				
ELRT025-4Q-5	615 165 041 0	61				
ELRT025-4Q-1	615 165 048 0	61				
ELRT025-P4900-10S	615 165 022 0	61				
ELRT045T-10S-5	615 165 042 0	61				
ELRT045T-10S-1	615 165 049 0	61				
ELS 12-400-P4S	615 165 826 0	19	<2.5		<70	
ELS 12-600-P	615 165 422 0	19	<2.5		<70	
ELS 15-480-A	615 165 629 0	19	<2.5		<70	
ELS 15-480-A4S	615 165 839 0	19	<2.5		<70	
ELS 2.5-1550-P	615 165 419 0	19	<2.5		<70	
ELS 30-300-A	615 165 630 0	19	<2.5		<70	
ELS 45-180-A	615 165 631 0	19	<2.5		<70	
ELS 6-1000-P	615 165 420 0	19	<2.5		<70	
ELS 7-360-A4S	615 165 725 0	19	<2.5		<70	
ELS 7-880-A	615 165 628 0	19	<2.5		<70	
ELS 8-400-P	615 165 605 0	19	<2.5		<70	
ELS 8-400-P4S	615 165 825 0	19	<2.5		<70	
ELS 8-800-P	615 165 421 0	19	<2.5		<70	
EME106-10J	615 165 437 0	65	<2.5		<70	
EME106-20J	615 165 438 0	65	<2.5		<70	
EME24-20 OF	615 165 512 0	65	<2.5		<70	
EME24-20 OF	615 165 512 0	65	<2.5		<70	
EME26-50 OF	615 165 513 0	65	<2.5		<70	
EME26-58 OF	615 165 513 0	65	<2.5		<70	
EME30-80 OF	615 165 514 0	65	<2.5		<70	
EME35-10J	615 165 423 0	65	<2.5		<70	
EME35-20J	615 165 424 0	65	<2.5		<70	
EME36-140 OF	615 165 515 0	65	<2.5		<70	
EME38-10J	615 165 425 0	65	<2.5		<70	
EME38-20J	615 165 426 0	65	<2.5		<70	
EME40-180 OF	615 165 516 0	65	<2.5		<70	
EME44-350 OF	615 165 602 0	65	<2.5		<70	
EME51-10J	615 165 427 0	65	<2.5		<70	
EME51-20J 6	615 165 428 0	65	<2.5		<70	
EME60-10J	615 165 429 0	65	<2.5		<70	
EME60-20J	615 165 430 0	65	<2.5		<70	
EME60-30J	615 165 431 0	65	<2.5		<70	

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EME80-10J	615 165 432 0	65	<2.5		<70	
EME80-20J	615 165 433 0	65	<2.5		<70	
EME80-30J	615 165 434 0	65	<2.5		<70	
EME80-40J	615 165 435 0	65	<2.5		<70	
EME80-50J	615 165 436 0	65	<2.5		<70	
EMEL38-20J	615 165 517 0	65	<2.5		<70	
EMEL51-20J	615 165 518 0	65	<2.5		<70	
EMEL60-20J	615 165 519 0	65	<2.5		<70	
EMEL60-30J	615 165 520 0	65	<2.5		<70	
EMEL80-40J	615 165 521 0	65	<2.5		<70	
EPB 17-700-10S	615 165 901 0	22	<2.5		<70	
EPB 17-700-4Q	615 165 905 0	22	<2.5		<70	
EPB 8-1800-10S	615 165 903 0	22	<2.5		<70	
EPB 8-1800-4Q	615 165 899 0	22	<2.5		<70	
EPBA 17-700-10S	615 165 975 0	22	<2.5		<70	
EPBA 17-700-4Q	615 165 976 0	22	<2.5		<70	
EPBA 8-1800-10S	615 165 971 0	22	<2.5		<70	
EPBA 8-1800-4Q	615 165 972 0	22	<2.5		<70	
EPBC 14-900-10S	615 165 979 0	37	<2.5		<70	
EPBC 14-900-4Q	615 165 980 0	37	<2.5		<70	
EPBC 17-700-10S	615 165 902 0	37	<2.5		<70	
EPBC 17-700-4Q	615 165 906 0	37	<2.5		<70	
EPBC 8-1800-10S	615 165 904 0	37	<2.5		<70	
EPBC 8-1800-4Q	615 165 900 0	37	<2.5		<70	
ERAL1.5-15	615 165 356 0	62	<2.5		<70	
ERAL1.5-25	615 165 357 0	62	<2.5		<70	
ERAL2.30	615 165 362 0	62	<2.5		<70	
ERAL2.40	615 165 363 0	62	<2.5		<70	
ERAL2-60	615 165 364 0	62	<2.5		<70	
ERAL2-80	615 165 365 0	62	<2.5		<70	
ERAL2-80 SQ1/2	615 165 406 0	62	<2.5		<70	
ERAL4-110	615 165 385 0	62	<2.5		<70	
ERAL4-120	615 165 386 0	62	<2.5		<70	
ERAL4-140	615 165 387 0	62	<2.5		<70	
ERAL4-170	615 165 388 0	62	<2.5		<70	
ERAL4-225	615 165 389 0	62	<2.5		<70	
ERAL4-90	615 165 384 0	62	<2.5		<70	
ERAL6-135	615 165 390 0	62	<2.5		<70	
ERAL6-170	615 165 441 0	62	<2.5		<70	
ERAL6-280	615 165 391 0	62	<2.5		<70	
ERAL6-350	615 165 392 0	62	<2.5		<70	
ERAL6-480	615 165 393 0	62	<2.5		<70	
ERD5J	615 165 060 0	62	<2.5		<70	
ERDL1.5-12	615 165 366 0	62	<2.5		<70	
ERDL1.5-20	615 165 367 0	62	<2.5		<70	
ERDL1.5-30	615 165 368 0	62	<2.5		<70	
ERDL2-40	615 165 369 0	62	<2.5		<70	
ERDL2-50	615 165 370 0	62	<2.5		<70	
ERDL4-135	615 165 395 0	62	<2.5		<70	
ERDL4-60	615 165 407 0	62	<2.5		<70	
ERDL4-80	615 165 394 0	62	<2.5		<70	
ERDL6-170	615 165 396 0	62	<2.5		<70	
ERDL6-220	615 165 397 0	62	<2.5		<70	
ERDL6-250	615 165 398 0	62	<2.5		<70	
ERP1000	615 165 886 0	55	<2.5		<75	
ERP10L	615 165 195 0	62	<2.5		<70	
ERP10LT	615 165 229 0	62	<2.5		<70	
ERP1700	615 165 887 0	55	<2.5		<75	
ERP20L	615 165 196 0	62	<2.5		<70	
ERP20LT	615 165 230 0	62	<2.5		<70	
ERP20S	615 165 197 0	62	<2.5		<70	
ERP250	615 165 883 0	55	<2.5		<75	
ERP30S	615 165 198 0	62	<2.5		<70	
ERP3L	615 165 193 0	62	<2.5		<70	
ERP3LT	615 165 227 0	62	<2.5		<70	
ERP40S	615 165 283 0	62	<2.5		<70	
ERP500	615 165 884 0	55	<2.5		<75	
ERP5LT	615 165 228 0	62	<2.5		<70	
ERP750	615 165 885 0	55	<2.5		<75	
ERS12	615 165 690 0	56	<2.5		<70	
ERS12-M20	615 165 693 0	56	<2.5		<70	
ERS2	615 165 688 0	56	<2.5		<70	
ERS2-M20	615 165 691 0	56	<2.5		<70	
ERS6	615 165 689 0	56	<2.5		<70	
ERS6-M20	615 165 692 0	56	<2.5		<70	
ERSA12	615 165 699 0	56	<2.5		<70	
ERSA2	615 165 697 0	56	<2.5		<70	
ERSA27	615 165 917 0	56	<2.5		<70	
ERSA6	615 165 698 0	56	<2.5		<70	
ERSF12	615 165 696 0	56	<2.5		<70	
ERSF2	615 165 694 0	56	<2.5		<70	
ERSF6	615 165 695 0	56	<2.5		<70	
ERXS20	615 165 874 0	56	<2.5		<70	
ERXS50	615 165 874 0	56	<2.5		<70	
ERXS80	615 165 874 0	56	<2.5		<70	
ESP C 110 V	615 165 484 0	90				
ESP C 220 V	615 165 480 0	90				
ESP C LT 110 V	615 165 485 0	90				
ESP C LT 220 V	615 165 481 0	90				
ESP CA 110V	615 165 486 0	90				
ESP CA 220V	615 165 482 0	90				
ESP CA LT 110V	615 165 487 0	90				
ESP CA LT 220V	615 165 483 0	90				
ESP1	615 932 635 0	87				
ESP1-A	615 932 662 0	87				
ESP1-HT	615 932 637 0	87				
ESP1-HT PLUS	615 932 707 0	87				
H410-N-150	1302534	111	<2.5		82	
H410-N-350	1302454	111	<2.5		82	
H410-N-500	1302374	111	<2.5		82	
H410-N-60	1302794	111	<2.5		82	
H410-N-90	1302614	111	<2.5		82	
K1120B3CWY	615 170 171 0	223	<2.5		90	
K1180-9	615 170 246 0	215	<2.5		95	101
K145B6	615 170 002 0	223	<2.5		75	
K160B6	615 170 003 0	223	<2.5		77	
K160B6Y	615 170 173 0	223	<2.5		77	
K190B3CW	615 170 005 0	223	<2.5		82	
K190B3CWY	615 170 172 0	223	<2.5		82	
K190B4	615 170 004 0	223	<2.5		82	
K320-7	615 170 033 0	213	<2.5		75	
K320-9	615 170 142 0	213	2.4	1.2	75	
K325-7	615 170 034 0	213	4.3		74	
K325-9	615 170 141 0	217	2.8	1.2	74	
K331-7	615 170 035 0	213	2.5		80	
K331-9	615 170 140 0	217	2.2	0.9	80	
K340-7	615 170 036 0	213	<2.5		78	
K340-9	615 170 139 0	217	4.3	2.1	78	
K345B8	615 170 009 0	223	<2.5		82	
K345B8Y	615 170 178 0	223	<2.5		82	
K360B6	615 170 010 0	223	<2.5		82	
K360B6Y	615 170 177 0	223	<2.5		82	
K360B9	615 170 521 0	223	<2.5		76	
K615-7	615 170 104 0	215	<2.5		76	
K615-9	615 170 155 0	215	<2.5	1.3	76	
K619-7	615 170 105 0	215	<2.5		76	
K619-9	615 170 153 0	215	<2.5		76	
K624-7	615 170 106 0	215	2.6	1.5	81	
K624-9	615 170 151 0	215	<2.5		81	
K628-7	615 170 107 0	215	<2.5		85	
K628-9	615 170 150 0	215	2.5	1.3	85	
K912-300-7	615 170 108 0	215	3.6	1.3	74	
K912-300-9	615 170 169 0	215	3.0	1.3	74	
K912-500-7	615 170 109 0	215	3.3	1.7	74	
K912-500-9	615 170 170 0	215	3.0	1.4	74	
K912-7	615 170 110 0	215	<2.5		76	
K912-9	615 170 157 0	215	<2.5		76	
K912C3	615 170 111 0	221	<2.5		81	
K912C4	615 170 112 0	221	<2.5		78	
K912D3	615 170 113 0	221	<2.5		77	
K915-7	615 170 114 0	215	<2.5		81	
K915-9	615 170 156 0	215	<2.5		81	
K915C25	615 170 115 0	221	<2.5		77	
K915C3	615 170 116 0	221	2.7	1.1	78	
K918-7	615 170 117 0	215	<2.5		80	
K918-9	615 170 154 0	215	<2.5		80	
K918C3	615 170 118 0	221	5.3	3.1	77	
K922-7	615 170 119 0	215	<2.5		81	
K922-9	615 170 152 0	221	<2.5		81	
KA16060A	615 170 449 0	241	3.3	1.6	77	
KA16060B	615 170 453 0	241	3.3	1.6	77	
KA16060BY	615 170 451 0	241	3.3	1.6	76	
KA16075A	615 170 448 0	241	3.3	1.6	80	
KA16075B	615 170 452 0	241	3.3	1.6	79	
KA16075BY	615 170 450 0	241	3.3	1.6	78	
KA16085A	615 170 468 0	241	3.4	1.7	80	
KA16085B	615 170 469 0	241	3.4	1.7	80	
KA16100B6FVK	615 170 470 0	231	5.2	1.5	82	
KA16120-9	615 170 443 0	215	5.0	3.1	82	
KA16120A	615 170 435 0	241	2.9	1.5	85	
KA16120A45	615 170 455 0	227	7.8	4.6	82	
KA16120A45VK	615 170 456 0	227	4.7	1.1	79	

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Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
KA16120A5	615 170 437 0	229	7.1	2.2	82	
KA16120A5VK	615 170 438 0	229	4.7	2.0	79	
KA16120B	615 170 445 0	241	2.9	1.5	85	
KA16120B45	615 170 457 0	227	7.8	4.6	82	
KA16120B45VK	615 170 458 0	227	4.4	2.5	79	
KA16120B5	615 170 439 0	229	7.5	2.5	82	
KA16120B5VK	615 170 454 0	229	4.7	1.1	79	
KA16120BY	615 170 447 0	241	2.9	1.5	86	
KA16120H5	615 170 444 0	229	7.9	2.3	82	
KA16120H5K	615 170 434 0	229	7.8	3.0	79	
KA16135C4FK	615 170 441 0	227	16.7	5.0	82	
KA16135C4S	615 170 446 0	241	4.8	3.6	85	
KA26060BY	615 170 481 0	245	<2.5		88	
KA26065B9V	615 170 477 0	245	5.4	1.0	93	
KA26065BV	615 170 480 0	255	<2.5		89	
KA26065H9V	615 170 490 0	245	5.4	1.0	93	
KA26077B7Y	615 170 478 0	243	5.3	1.1	84	
KA26077BY	615 170 482 0	255	3.6	0.8	84	
KA26085B7V	615 170 476 0	243	5.7	1.1	87	
KA26085BV	615 170 479 0	255	<2.5		87	
KA26085H7V	615 170 489 0	243	5.7	1.1	87	
KA3.135-7	615 170 515 0	213	3.9		81	
KA3.21-7	615 170 517 0	247	<2.5		80	
KA3.36-7	615 170 516 0	247	3.1		80	
KA3.36A	615 170 518 0	247	<2.5		80	
KA309-9	615 170 266 0	215	2.8	1.6	76	
KA309C	615 170 203 0	247	8.1	1.3	76	
KA309G	615 170 204 0	247	<2.5		77	
KA312-7	615 170 037 0	213	2.9	0.9	75	
KA312-9	615 170 149 0	215	3.2	2.0	75	
KA312-9FE	615 170 205 0	215	3.2	2.0	78	
KA312E7	615 170 039 0	213	3.4	1.4	77	
KA312E9	615 170 147 0	215	3.5	1.8	77	
KA312EG	615 170 040 0	245	2.7	1.2	76	
KA312G	615 170 038 0	247	<2.5		77	
KA313C4	615 170 049 0	223	12	4.0	79	
KA313EC4	615 170 050 0	223	15	6.0	78	
KA318-9	615 170 461 0	215	4.1	2.1	77	
KA318C3	615 170 041 0	223	14.7	5.8	81	
KA318EC3	615 170 045 0	223	18	6.5	78	
KA318G	615 170 310 0	227	2.5	1.3	77	
KA320-7	615 170 043 0	201	4.7	2.4	78	
KA320-9	615 170 148 0	205	4.3	2.1	78	
KA320-9FE	615 170 206 0	205	4.3	2.1	80	
KA320C2	615 170 488 0	213	19.8	6.6	78	
KA320C3	615 170 042 0	213	19.8	6.6	78	
KA320E7	615 170 047 0	201	5.1	2.3	80	
KA320E9	615 170 146 0	205	5.7	3.0	80	
KA320EC2	615 170 487 0	213	16	4.9	80	
KA320EC3	615 170 046 0	213	16	4.9	80	
KA320EG	615 170 048 0	227	3.6	2.6	77	
KA320G	615 170 044 0	227	2.8	1.2	77	
KA613-9	615 170 135 0	217	3.7	1.4	85	
KA613C4	615 170 137 0	213	9.3	3.0	85	
KA613E9	615 170 136 0	217	4.9	2.6	83	
KA613EC4	615 170 138 0	213	7.2	2.4	84	
KA9020A	615 170 096 0	251	<2.5		80	
KA9020B	615 170 097 0	251	<2.5		80	
KA9030A	615 170 098 0	251	2.6	1.3	83	
KA9030B	615 170 099 0	251	2.6	1.3	83	
KA9030BY	615 170 309 0	251	2.6	1.3	82	
KC061000	205 146 638 4	211	<2.5		71	
KC1600	615 170 315 0	211	<2.5		71	
KC1600-T	615 170 313 0	211	<2.5		71	
KC318-9	615 170 196 0	217	3.4	1.5	72	
KC320-7	615 170 029 0	201	<2.5		74	
KC320-9	615 170 027 0	217	3.1	1.9	74	
KC325-7	615 170 030 0	213	<2.5		78	
KC325-9	615 170 145 0	217	3.0	1.4	78	
KC331-7	615 170 031 0	213	2.8	2.0	77	
KC340-7	615 170 032 0	213	2.8	2.0	77	
KC340-9	615 170 143 0	215	3.9	1.8	77	
KC615-7	615 170 123 0	215	<2.5		74	
KC615-9	615 170 163 0	215	3.4	2.0	74	
KC619-7	615 170 124 0	215	<2.5		74	
KC619-9	615 170 161 0	215	3.1	1.8	74	
KC624-7	615 170 125 0	215	<2.5		82	
KC624-9	615 170 159 0	215	<2.5		82	
KC624-9RT	615 170 290 0	215	<2.5		82	
KC628-7	615 170 126 0	215	<2.5		85	
KC628-9	615 170 158 0	215	<2.5		82	
KC9010-7	615 170 120 0	237	<2.5		84	
KC9010-9	615 170 168 0	237	<2.5		82	
KC9035-7	615 170 121 0	237	<2.5		82	
KC9035-9	615 170 167 0	237	<2.5		82	
KC9060-7	615 170 122 0	237	<2.5		83	
KC9060-9	615 170 166 0	237	<2.5		83	
KC912-7	615 170 127 0	215	<2.5		75	
KC912-9	615 170 165 0	215	<2.5		75	
KC912D3	615 170 491 0	221	<2.5		81	
KC915-7	615 170 128 0	215	<2.5		80	
KC915-9	615 170 164 0	215	3.9	2.2	80	
KC918-7	615 170 129 0	215	<2.5		81	
KC918-9	615 170 162 0	215	2.9	1.8	81	
KC922-7	615 170 130 0	215	<2.5		81	
KC922-9	615 170 160 0	215	3.5	2.4	81	
KC331-9	615 170 144 0	217	3.4	1.5	77	
KL1120A5	615 170 013 0	219	6.8	2.5	84	
KL165B	615 170 011 0	233	<2.5		77	
KL177B7Y	615 170 182 0	233	6.7	2.1	91	
KL185B7	615 170 012 0	233	6.7	2.1	78	
KL360B6C	615 170 337 0	233	<2.5		84	
KL360B6CY	615 170 351 0	233	<2.5		84	
KL360B9Y	615 170 350 0	235	4.0	1.8	85	
KL365B9	615 170 338 0	235	4.6	1.4	87	
KL365B9V	615 170 474 0	235	<2.5		87	
KL377B7	615 170 341 0	233	5.1	1.5	88	
KL377B7V	615 170 472 0	233	<2.5		<70	
MC35-10	615 165 107 0	81	<2.5		<70	
MC35-20	615 165 108 0	81	<2.5		<70	
MC38-10	615 165 109 0	81	<2.5		<70	
MC38-20	615 165 110 0	81	<2.5		<70	
MC51-10	615 165 111 0	81	<2.5		<70	
MC51-20	615 165 112 0	81	<2.5		<70	
Multicombox	615 029 044 0	56				
Multiplus		138				
PL05-10D	615 170 131 0	255	<2.5		80	
PL05-10E	615 170 132 0	255	<2.5		80	
PL05-10F	615 170 133 0	255	<2.5		80	
Posco 500		74				
Posco Vision		75				
PT010-L5000-S4Q	205 146 225 4	122	4.7	2.3	70	
PT010-T5000-S4Q	205 146 227 4	122	3.5	1.6	73	
PT014-L6000-S4Q	205 146 226 4	122	4.7	2.1	73	
PT014-T6000-S4Q	205 146 228 4	122	3.0	2.2	70	
PT025-L4500-S10S	205 147 463 4	122	7.4	4.2	75	
PT025-T4500-S10S	205 147 462 4	122	6.3	3.4	76	
PT028-T9000-I4Q	205 147 789 4	122	4.3	2.9	72	
PT031-L10000-I10S	205 147 466 0	122	4.7	2.1	73	
PT031-T9000-I10S	205 147 467 4	122	5.2	4.5	75	
PT035-T6000-S4Q	205 147 790 4	122	6.1	2.2	74	
PT040-T6000-S10S	205 146 229 4	122	6.3	2.5	77	
PT052-T7000-I10S	205 147 468 4	122	3.7	2.2	80	
PT070-T4000-S13S	205 146 230 4	122	5.8	2.2	82	
PT070-T6000-I13S	205 147 469 4	122	4.9	2.7	48	
PT110-T4500-I13S	205 147 470 4	122	8.1	2.7	79	
PT125-T3500-S135	205 146 231 4	122	7.2	2.4	79	
PT160-T3500-I13S	205 147 471 4	122	9.3	4.2	79	
PT240-T2800-I19S	205 147 472 4	122	8.9	4.2	81	
PT250-T4000-S19S	205 147 464 4	122	8.5	1.8	80	
PT450-T3000-S19S	205 147 465 4	122	11.2	4.1	85	
PTF012-T6200-S10S	615 172 081 0	120	<2.5		75	
PTF012-T6200-S4Q	615 172 104 0	120	<2.5		75	
PTF012-T6500-S4Q P	615 172 105 0	120	<2.5		79	
PTF020-T6700-I4Q	615 172 101 0	120	<2.5		76	
PTF024-T6500-S10S	615 172 084 0	120	<2.5		79	
PTF024-T6700-I10S	615 172 072 0	120	<2.5		76	
PTF028-T6300-I4Q	615 172 102 0	120	<2.5		79	
PTF028-T6300-S4Q	615 172 106 0	120	<2.5		79	
PTF035-T6300-S10S	615 172 087 0	120	<2.5		79	
PTF035-T6700-I4Q	615 172 103 0	120	<2.5		82	
PTF040-T6300-I10S	615 172 074 0	120	<2.5		79	
PTF056-T6700-I10S	615 172 075 0	120	<2.5		82	
PTF060-T6100-I10S	615 172 076 0	120	<2.5		84	
PTF060-T6100-S10S	615 172 088 0	120	<2.5		79	
PTF085-T4800-S13S	615 172 089 0	120	3.7	1.5	81	
PTF096-T4600-I13S	615 172 077 0	120	3.4	1.3	79	
PTF130-T4500-S13S	615 172 090 0	120	3.9	1.8	85	
PTF136-T5000-I13S	615 172 078 0	120	<2.5		85	
PTF165-T3400-S13S	615 172 091 0	120	4.9	2.4	83	
PTF172-T3800-I13S	615 172 079 0	120	4.1	2.1	84	
RFD-100-140	145364	198	<2.5		88	

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Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
RFD-100-1850	681394	198	<2.5		88	
RFD-100-2800	681214	198	<2.5		90	
RFD-100-330	680244	198	<2.5		88	
RFD-100-500	680164	198	<2.5		88	
RFD-100-60	1457384	198	<2.5		88	
RFD-100-800	680084	198	<2.5		88	
RFD-100-85	1457374	198	<2.5		88	
RFDT-125-140	1445504	198	<2.5		88	
RFDT-125-330	1445674	198	<2.5		88	
RFDT-125-500	1445664	198	<2.5		88	
RFDT-125-60	1445524	198	<2.5		88	
RFDT-125-800	1445654	198	<2.5		88	
RFDT-125-85	1445514	198	<2.5		88	
Routers		219				
S144-T3100	936974	272	<2.5		80	
SB011-AB1600-S4Q	1460644	102	<2.5		69	
SB011-AR1600-S4Q	1460524	102	<2.5		69	
SB015-AB1100-S4Q	1460634	102	<2.5		69	
SB015-AR1100-S4Q	1460514	102	<2.5		69	
SB021-LR1400-S4Q	205 147 508 4	103	<2.5		72	
SB025-AB500-S4Q	1460684	102	<2.5		69	
SB025-AB750-S4Q	1460624	102	<2.5		69	
SB025-AR500-S4Q	1460564	102	<2.5		69	
SB025-AR750-S4Q	1460504	102	<2.5		69	
SB043-LR1050-S4Q	205 147 507 4	103	<2.5		72	
SB047-LR500-S4Q	205 147 506 4	103	<2.5		72	
SBP021-T1600-S4Q	1462154	104	<2.5		73	
SBP021-T2300-S4Q	1462144	104	<2.5		73	
SBP022-T1600-R4Q	1462194	109	<2.5		73	
SBP024-T2300-R4Q	1462184	109	<2.5		73	
SBP043-T1100-S4Q	1462164	104	<2.5		73	
SBP044-T1100-R4Q	1462204	109	<2.5		73	
SBP044-T550-R4Q	1462214	109	<2.5		73	
SBP047-T550-S4Q	1462174	104	<2.5		73	
SC009-L1600-HLT4M	1459644	105	<2.5		73	
SC021-L1400-S90A4H	1459064	112	<2.5		73	
SC021-L1400-S90A4S	1459144	112	<2.5		73	
SC021-L1600-HLT4M	1459614	105	<2.5		73	
SC021-L2000-S90A4H	1459074	112	<2.5		73	
SC021-L2000-S90A4S	1459154	112	<2.5		73	
SC022-L1100-HLT4M	1459654	105	<2.5		73	
SC022-L1400-R90A4S	1459184	114	<2.5		73	
SC022-L550-HLT4M	1459664	105	<2.5		73	
SC024-L2000-R90A4H	1459114	114	<2.5		73	
SC024-L2000-R90A4S	1459194	114	<2.5		73	
SC043-L1100-HLT4M	1459624	105	<2.5		73	
SC043-L950-S90A4H	1459054	112	<2.5		73	
SC043-L950-S90A4S	1459134	112	<2.5		73	
SC044-L500-R90A4H	1459084	114	<2.5		73	
SC044-L500-R90A4S	1459164	114	<2.5		73	
SC044-L950-R90A4H	1459094	114	<2.5		73	
SC044-L950-R90A4S	1459174	114	<2.5		73	
SC047-L500-S90A4H	1459044	112	<2.5		73	
SC047-L500-S90A4S 1	459124	112	<2.5		73	
SC047-L550-HLT4M	1459634	105	<2.5		73	
SC2-025-1AM2200-S4Q	205 147 426 4	117	<2.5		71	
SC2-025-2RM2200-S4Q	205 147 440 4	117	<2.5		71	
SC2-025-A2200-R4Q	205 147 276 4	117	<2.5		71	
SC2-025-A2200-S4Q	205 147 269 4	102	<2.5		71	
SC2-025-L2200-R4Q	205 147 290 4	108	<2.5		71	
SC2-025-L2200-S4Q	205 147 283 4	103	<2.5		71	
SC2-035-1AM1500-S4Q	205 147 425 4	117	<2.5		71	
SC2-035-2RM1500-S4Q	205 147 439 4	117	<2.5		71	
SC2-035-A1500-R4Q	205 147 275 4	108	<2.5		71	
SC2-035-A1500-S4Q	205 147 268 4	102	<2.5		71	
SC2-035-L1500-R4Q	205 147 289 4	108	<2.5		71	
SC2-035-L1500-S4Q	205 147 282 4	103	<2.5		71	
SC2-045-1AM1000-S4Q	205 147 424 4	117	<2.5		71	
SC2-045-2RM1000-S4Q	205 147 438 4	117	<2.5		71	
SC2-045-A1000-R4Q	205 147 274 4	108	<2.5		71	
SC2-045-A1000-S4Q	205 147 267 4	102	<2.5		71	
SC2-045-L1000-R4Q	205 147 288 4	108	<2.5		71	
SC2-045-L1000-S4Q	205 147 281 4	103	<2.5		71	
SC2-055-1AM700-S4Q	205 147 423 4	117	<2.5		71	
SC2-055-2RM700-S4Q	205 147 437 4	117	<2.5		71	
SC2-055-A700-R4Q	205 147 273 4	108	<2.5		71	
SC2-055-A700-S4Q	205 147 266 4	102	<2.5		71	
SC2-055-L700-R4Q	205 147 287 4	108	<2.5		71	
SC2-055-L700-S4Q	205 147 280 4	103	<2.5		71	
SC2-065-1AM500-S4Q	205 147 422 4	117	<2.5		71	
SC2-065-2RM500-S4Q	205 147 436 4	117	<2.5		71	
SC2-065-A500-R4Q	205 147 272 4	108	<2.5		71	
SC2-065-A500-S4Q	205 147 265 4	102	<2.5		71	
SC2-065-L500-R4Q	205 147 286 4	108	<2.5		71	
SC2-065-L500-S4Q	205 147 279 4	103	<2.5		71	
SC2P	615 170 077 0	249	4.6	2.6	81	
SC2P14	615 170 083 0	249	4.6	2.6	85	
SC2P8	615 170 089 0	249	4.6	2.6	82	
SC3P	615 170 079 0	249	3.7	2.0	79	
SC3P14	615 170 085 0	249	3.7	2.0	83	
SC3P8	615 170 091 0	249	3.7	2.0	82	
SC4	615 170 081 0	249	5.4	2.8	80	
SC4-14	615 170 087 0	249	5.4	2.8	82	
SC4-8	615 170 093 0	249	5.4	2.8	83	
SC4P	615 170 078 0	249	2.7	1.6	81	
SC4P14	615 170 084 0	249	2.7	1.6	84	
SC4P8	615 170 090 0	249	2.7	1.6	82	
SCBP021-T1600-S4Q	1466364	104	<2.5		73	
SCBP021-T2300-S4Q	1466374	104	<2.5		73	
SCBP043-T1100-S4Q	1466354	104	<2.5		73	
SCBP044-T740-S4Q	1466344	104	<2.5		73	
SCBP047-T550-S4Q	1466334	104	<2.5		73	
SCP009-T1600-HLT4M	1459704	105	<2.5		73	
SCP021-T1600-HLT4M	1459714	105	<2.5		73	
SCP021-T1600-S4Q	1456744	104	<2.5		73	
SCP021-T2300-S4Q	1456734	104	<2.5		73	
SCP022-T1600-R4Q	1456784	109	<2.5		73	
SCP022-T550-HLT4M	1459744	105	<2.5		73	
SCP043-T1100-HLT4M	1459734	105	<2.5		73	
SCP043-T1100-S4Q	1456754	104	<2.5		73	
SCP044-T1100-R4Q	1456794	109	<2.5		73	
SCP044-T550-R4Q	1456804	109	<2.5		73	
SCP047-T550-HLT4M	1459754	105	<2.5		73	
SCP047-T550-S4Q	1456764	104	<2.5		73	
SCPT021-A1600-S4Q	1458934	104	<2.5		73	
SCPT021-A2300-S4Q	1458974	104	<2.5		73	
SCPT022-A1600-R4Q	1458954	109	<2.5		73	
SCPT024-A2300-R4Q	1458994	109	<2.5		73	
SCPT043-A1100-S4Q	1458894	104	<2.5		73	
SCPT044-A1100-R4Q	1458914	109	<2.5		73	
SCPT047-A550-S4Q	1458854	104	<2.5		73	
SD023-2RM3500-S4Q	1464324	117	<2.5		73	
SD023-AB3500-R4Q	1462954	108	<2.5		73	
SD023-AB3500-S4Q	1462834	102	<2.5		73	
SD023-AR3500-R4Q	1462894	108	<2.5		73	
SD023-AR3500-S4Q	1462764	102	<2.5		73	
SD023-LB3500-R4Q	1463214	108	<2.5		73	
SD023-LB3500-S4Q	1463094	103	<2.5		73	
SD023-LR3500-R4Q	1463154	108	<2.5		73	
SD023-LR3500-S4Q	1463024	103	<2.5		73	
SD035-1AM2200-S4Q	1464244	117	<2.5		73	
SD035-2RM2200-S4Q	1464314	117	<2.5		73	
SD035-AB2200-R4Q	1462944	108	<2.5		73	
SD035-AB2200-S4Q	1462824	102	<2.5		73	
SD035-AR2200-R4Q	1462884	108	<2.5		73	
SD035-AR2200-S4Q	1462754	102	<2.5		73	
SD035-LB2200-R4Q	1463204	108	<2.5		73	
SD035-LB2200-S4Q	1463084	103	<2.5		73	
SD035-LR2200-R4Q	1463144	108	<2.5		73	
SD035-LR2200-S4Q	1463014	103	<2.5		73	
SD055-1AM1470-S4Q	1464234	117	<2.5		73	
SD055-2RM1470-S4Q	1464304	117	<2.5		73	
SD055-AB1470-R4Q	1462934	108	<2.5		73	
SD055-AB1470-S4Q	1462814	102	<2.5		73	
SD055-AR1470-R4Q	1462874	108	<2.5		73	
SD055-AR1470-S4Q	1462744	102	<2.5		73	
SD055-LB1470-R4Q	1463194	108	<2.5		73	
SD055-LB1470-S4Q	1463074	103	<2.5		73	
SD055-LR1470-R4Q	1463134	108	<2.5		73	
SD055-LR1470-S4Q	1463004	103	<2.5		73	
SD070-LB1100-R90-A4H	1463334	114	<2.5		73	
SD070-LB1100-R90-A4S	1463454	114	<2.5		73	
SD070-LB1100-S90-A4H	1463254	112	<2.5		73	
SD070-LB1100-S90-A4S	1463374	112	<2.5		73	
SD070-LB320-S90-A4H	1463224	112	<2.5		73	
SD070-LB320-S90-A4S	1463344	112	<2.5		73	
SD070-LB510-R90-A4H	1463314	114	<2.5		73	
SD070-LB510-R90-A4S	1463434	114	<2.5		73	
SD070-LB510-S90-A4H	1463234	112	<2.5		73	
SD070-LB510-S90-A4S	1463354	112	<2.5		73	
SD070-LB820-R90-A4H	1463324	114	<2.5		73	
SD070-LB820-S90-A4H	1463244	112	<2.5		73	

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Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
SD070-LB820-S90-A4S	1463364	112	<2.5		73	
SD070-LR1100-S90-A4H	1463294	112	<2.5		73	
SD070-LR1100-S90-A4S	1463414	112	<2.5		73	
SD070-LR160-S90-A4S	205 146 705 4	112	<2.5		73	
SD070-LR320-R90-A4H	1463624	114	<2.5		73	
SD070-LR320-R90-A4S	1463664	114	<2.5		73	
SD070-LR320-S90-A4H	1463264	112	<2.5		73	
SD070-LR320-S90-A4S	1463384	112	<2.5		73	
SD070-LR510-S90-A4H	1463274	112	<2.5		73	
SD070-LR510-S90-A4S	1463394	112	<2.5		73	
SD070-LR820-S90-A4S	1463404	112	<2.5		73	
SD072-LB1080-S90-A10S	1463504	112	<2.5		73	
SD072-LR1080-S90-A10S	1463554	112	<2.5		73	
SD075-1AM1100-S4Q	1464224	117	<2.5		73	
SD075-2RM1100-S4Q	1464294	117	<2.5		73	
SD075-AB1100-R4Q	1462924	108	<2.5		73	
SD075-AB1100-S4Q	1462804	102	<2.5		73	
SD075-AR1100-R4Q	1462864	108	<2.5		73	
SD075-AR1100-S4Q	1462734	102	<2.5		73	
SD075-LA1100-S4	1464604	110	<2.5		73	
SD075-LB1100-R4Q	1463184	108	<2.5		73	
SD075-LB1100-S4Q	1463064	103	<2.5		73	
SD075-LR1100-R4Q	1463124	108	<2.5		73	
SD075-LR1100-S4Q	1462994	103	<2.5		73	
SD095-LB800-S90-A10S	1463494	112	<2.5		73	
SD095-LR800-S90-A10S	1463544	112	<2.5		73	
SD096-LB800-D90-A4S	1465984	115	<2.5		73	
SD097-LB1080-R90-A10S	1463584	114	<2.5		73	
SD097-LR1080-R90-A10S	1463724	114	<2.5		73	
SD100-1AM820-S4Q	1464214	117	<2.5		73	
SD100-2RM820-S4Q	1464284	117	<2.5		73	
SD100-AB510-R4Q	1462904	108	<2.5		73	
SD100-AB820-R4Q	1462914	108	<2.5		73	
SD100-AB820-S4Q	1462794	102	<2.5		73	
SD100-AR510-R4Q	1462844	108	<2.5		73	
SD100-AR820-R4Q	1462854	108	<2.5		73	
SD100-AR820-S4Q	1462724	102	<2.5		73	
SD100-LB510-R4Q	1463164	108	<2.5		73	
SD100-LB820-R4Q	1463174	108	<2.5		73	
SD100-LB820-S4Q	1463054	103	<2.5		73	
SD100-LR510-R4Q	1463104	108	<2.5		73	
SD100-LR820-R4Q	1463114	108	<2.5		73	
SD100-LR820-S4Q	1462984	103	<2.5		73	
SD110-LX450	205 148 131 4	115	<2.5		73	
SD130-LB500-D90-A4S	1465974	115	<2.5		73	
SD130-LB600-R90-A10S	1463574	114	<2.5		73	
SD130-LB600-S90-A10S	1463484	112	<2.5		73	
SD130-LR600-R90-A10S	1463714	114	<2.5		73	
SD130-LR600-S90-A10S	1463534	112	<2.5		73	
SD140-1AM510-S4Q	1464204	117	<2.5		73	
SD140-2RM510-S4Q	1464274	117	<2.5		73	
SD140-AB510-S4Q	1462784	102	<2.5		73	
SD140-AR510-S4Q	1462714	102	<2.5		73	
SD140-LA510-S4	1464584	110	<2.5		73	
SD140-LB510-S4Q	1463044	103	<2.5		73	
SD140-LR510-S4Q	1462974	103	<2.5		73	
SD160-1AM320-S4Q	1464194	117	<2.5		73	
SD160-2RM320-S4Q	1464264	117	<2.5		73	
SD160-AB320-S4Q	1462774	102	<2.5		73	
SD160-AR320-S4Q	1462704	102	<2.5		73	
SD160L-AR320-S4Q	205 147 799 4	110	<2.5		73	
SD160-LB320-S4Q	1463034	103	<2.5		73	
SD160-LR320-S4Q	1462964	103	<2.5		73	
SD209-LB370-R90-A10S	1463564	114	<2.5		73	
SD209-LB370-S90-A10S	1463474	112	<2.5		73	
SD209-LR370-R90-A10S	1463704	114	<2.5		73	
SD209-LR370-S90-A10S	1463524	112	<2.5		73	
SD220-2RM320-S10S	205 147 941 4	111	<2.5		78	
SD220-2RM320-S4Q	205 147 939 4	111	<2.5		78	
SD220-LR320-S10S	205 147 979 4	111	<2.5		78	
SD220-LR320-S4Q 2	205 147 937 4	111	<2.5		78	
SD300-LB250-S90-A10S	1463464	112	<2.5		73	
SD300-LR180-S90-A10S	205 146 704 4	112	<2.5		73	
SD300-LR250-S90-A10S	1463514	112	<2.5		73	
SDP023-T3400-D4Q	1465714	110	<2.5		75	
SDP023-T3400-R4Q	1465644	109	<2.5		75	
SDP023-T3400-S4Q	1465574	104	<2.5		73	
SDP035-T2100-D4Q	1465704	110	<2.5		75	
SDP035-T2100-R4Q	1465634	109	<2.5		75	
SDP035-T2100-S4Q	1465564	104	<2.5		73	
SDP045-T180-S4Q 205	205 146 706 4	104	<2.5		75	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
SDP055-T1400-D4Q	1465694	110	<2.5		75	
SDP055-T1400-R4Q	1465624	109	<2.5		75	
SDP055-T1400-S4Q	1465554	104	<2.5		75	
SDP075-T1050-D4Q	1465684	110	<2.5		75	
SDP075-T1050-R4Q	1465614	109	<2.5		75	
SDP075-T1050-S4Q	1465544	104	<2.5		75	
SDP100-T300-R4Q	1465584	109	<2.5		75	
SDP100-T490-R4Q	1465594	109	<2.5		75	
SDP100-T700-S4Q	1465534	104	<2.5		75	
SDP100-T780-D4Q	1465674	110	<2.5		75	
SDP100-T780-R4Q	1465604	109	<2.5		75	
SDP140-T490-D4Q	1465664	110	<2.5		75	
SDP140-T490-S4Q	1465524	104	<2.5		75	
SDP160-T300-S4Q	1465514	104	<2.5		75	
SDT023-T3500-R4Q	205 147 635 4	109	<2.5		75	
SDT035-T1100-S4Q 205	205 147 623 4	104	<2.5		75	
SDT035-T2200-R4Q	205 147 636 4	109	<2.5		75	
SDT035-T2200-S4Q	1465774	104	<2.5		75	
SDT055-T1470-R4Q	205 147 637 4	109	<2.5		75	
SDT055-T1470-S4Q	1465764	104	<2.5		75	
SDT075-T1100-R4Q	205 147 638 4	109	<2.5		75	
SDT075-T1100-S4Q	1465754	104	<2.5		75	
SDT100-T320-R4Q	205 147 641 4	109	<2.5		75	
SDT100-T510-R4Q	205 147 644 4	109	<2.5		75	
SDT100-T820-R4Q	205 147 639 4	109	<2.5		75	
SDT100-T820-S4Q	1465744	104	<2.5		75	
SDT140-T510-S4Q	1465734	104	<2.5		75	
SDT160-T320-S4Q	1465724	104	<2.5		75	
SH1200-LR215-S90-A13S	205 147 476 4	113	<2.5		<70	
SH150-LR580-S90-A10S	205 147 629 4	113	<2.5		80	
SH2000-LR100-S90-A13S	205 147 801 4	113	<2.5		<70	
SH200-LR550-S90-A10S	205 147 630 4	113	<2.5		80	
SH280-LR350-S90-A10S	205 147 631 4	113	<2.5		80	
SH280-LR80-S90-A10S	205 147 632 4	113	<2.5		80	
SH330-LB330-OE11-CC53	205 147 818 4	116				
SH330-LB330-OE11-CC75	205 147 819 4	116				
SH330-LB330-OE13-CC53	205 147 820 4	116				
SH330-LB330-OE13-CC75	205 147 821 4	116				
SH330-LB430-CE13-CC53	205 147 815 4	116				
SH410-LB400-CE17-CC68	205 147 817 4	116				
SH420-LR190-S90-A13S	205 147 800 4	113	<2.5		80	
SH500-LR330-S90-A13S	205 147 473 4	113	<2.5		80	
SH700-LR225-S90-A13S	205 147 474 4	113	<2.5		80	
SH70-LR1100-S90-A4S	205 147 628 4	113	<2.5		80	
SH850-LR190-S90-A13S	205 147 475 4	113	<2.5		80	
SLB001-L1000-S WS	615 165 705 0	89	<2.5		<70	
SLB003-L1000-S4Q	615 165 625 0	89	<2.5		<70	
SLB003-L230-S4Q	615 165 881 0	89	<2.5		<70	
SLB012-A1000-S4Q	615 165 568 0	89	<2.5		<70	
SLB012-A2000-S4Q	615 165 569 0	89	<2.5		<70	
SLB012-L1000-S4Q	615 165 565 0	89	<2.5		<70	
SLB012-L2000-S4Q	615 165 566 0	89	<2.5		<70	
SLB020-A1000-S4Q	615 165 570 0	89	<2.5		<70	
SLB020-L1000-S4Q	615 165 567 0	89	<2.5		<70	
SLB030-A1000-S4Q	615 165 622 0	89	<2.5		<70	
SLB030-A2000-S4Q	615 165 623 0	89	<2.5		<70	
SLB030-L1000-S4Q	615 165 619 0	89	<2.5		<70	
SLB030-L2000-S4Q	615 165 620 0	89	<2.5		<70	
SLB050-A1000-S4Q	615 165 624 0	89	<2.5		<70	
SLB050-L1000-S4Q	615 165 621 0	89	<2.5		<70	
SLB090-A800-S4Q	615 165 896 0	89	<2.5		<70	
SLB090-L800-S4Q	615 165 892 0	89	<2.5		<70	
SLB120-A550-S4Q	615 165 897 0	89	<2.5		<70	
SLB120-L550-S4Q	615 165 893 0	89	<2.5		<70	
SLC030-F1200-C4Q	615 165 490 0	92	<2.5		<70	
SLC030-L1200-C4Q	615 165 500 0	91	<2.5		<70	
SLC030-L1200-C90A4H	615 165 478 0	91	<2.5		<70	
SLC030-P1200-C4Q	615 165 488 0	92	<2.5		<70	
SLC030-T1200-C4Q	615 165 489 0	92	<2.5		<70	
SLC100-F600-C4Q	615 165 468 0	92	<2.5		<70	
SLC100-L600-C4Q	615 165 466 0	91	<2.5		<70	
SLC100-L600-C90A4H	615 165 479 0	91	<2.5		<70	
SLC100-P600-C4Q	615 165 462 0	92	<2.5		<70	
SLC100-T600-C4Q	615 165 464 0	92	<2.5		<70	
SLC150-F320-C4Q	615 165 469 0	92	<2.5		<70	
SLC150-L320-C4Q	615 165 467 0	92	<2.5		<70	
SLC150-P320-C4Q	615 165 463 0	92	<2.5		<70	
SLC150-T320-C4Q	615 165 465 0	92	<2.5		<70	
SMRD60H	615 170 288 0	261	4.7	1.7	80	
SMRD60HC	615 170 281 0	261	4.7	1.7	82	
SMRD60HV	615 170 282 0	261	4.7	1.7	85	

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Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

All values are current as of the date of this publication. For the latest information please visit www.desouttertools.com

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 A m/s²	VIBRATION LEVEL (3 AXES VALUE) ISO 28927 K m/s²	NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL ISO 15744 dB(A)
SP3	615 170 198 0	265	12.6	3.4	80	
SP3P	615 170 197 0	265	5.1	2.3	81	
SPXRD30H	615 170 281 0	265	8.3	3.2	76	
SV3	615 170 066 0	263	10.7	3.8	80	
SV3-14	615 170 070 0	263	10.7	3.8	82	
SV3-8	615 170 074 0	263	10.7	3.8	78	
SV3P	615 170 067 0	263	10.6	4.0	81	
SV3P14	615 170 071 0	263	10.6	4.0	81	
SV3P8	615 170 075 0	263	7.8	1.3	78	
SV4P	615 170 068 0	263	8.3	3.0	83	
SV4P14	615 170 072 0	263	8.3	3.0	81	
SV4P8	615 170 076 0	263	7.5	3.0	80	
SXOAR1	615 170 233 0	259	6.3	3.0	76	
SXOAR1C	615 170 237 0	259	6.3	3.4	76	
SXOAR1V	615 170 235 0	259	6.3	3.2	82	
SXOAT1	615 170 234 0	259	7.6	3.0	77	
SXOAT1C	615 170 238 0	259	5.3	2.7	78	
SXOAT1V	615 170 236 0	259	5.3	2.7	81	
SXRA35	615 170 218 0	255	5.6	2.1	76	
SXRA35C	615 170 224 0	255	3.8	1.7	78	
SXRA35V	615 170 221 0	255	3.8	1.7	85	
SXRA50	615 170 219 0	255	4.7	2.4	76	
SXRA50C	615 170 225 0	255	3.2	1.4	78	
SXRA50V	615 170 222 0	255	3.2	1.4	85	
SXRA60	615 170 220 0	255	5.0	2.3	76	
SXRA60C	615 170 226 0	255	3.2	1.4	78	
SXRA60V	615 170 223 0	255	4.6	2.9	85	
SXRB35	615 170 209 0	255	3.8	1.7	76	
SXRB35C	615 170 215 0	255	3.4	1.3	78	
SXRB35V	615 170 212 0	255	3.8	1.7	85	
SXRB50	615 170 300 0	255	4.3	1.5	76	
SXRB50	615 170 210 0	255	4.3	1.5	76	
SXRB50C	615 170 216 0	255	3.9	1.4	78	
SXRB50V	615 170 213 0	255	3.2	1.7	85	
SXRB60	615 170 211 0	255	3.4	1.7	76	
SXRB60	615 170 317 0	255	3.4	1.7	76	
SXRB60C	615 170 217 0	255	5.7	2.9	78	
SXRB60H	615 170 355 0	257	5.1	2.5	76	
SXRB60H	615 170 356 0	257	5.1	2.5	76	
SXRB60HC	615 170 362 0	257	4.4	1.9	78	
SXRB60HV	615 170 359 0	257	5.6	1.9	85	
SXRB60V	615 170 214 0	255	4.4	1.5	85	
SXRC60	615 170 462 0	255	3.4	1.7	76	
SXRC60H	615 170 465 0	257	5.1	2.5	76	
SXRC60C	615 170 463 0	255	5.7	2.9	78	
SXRC60HC	615 170 466 0	257	4.4	1.9	78	
SXRC60HV	615 170 467 0	257	5.6	1.9	85	
SXRC60V	615 170 464 0	255	4.4	1.5	85	
T500-P400	205 147 995 4	196	<2.5		76	
T500-P500	205 147 996 4	196	<2.5		76	
Tool holsters - DTH..		196				
TRA100 1600	615 810 099 0	164				
TRA100 2100	615 810 100 0	164				
TRA100 2100 P	615 811 682 0	165				
TRA100 2100 P2	615 811 683 0	165				
TRA100 2600	615 810 101 0	164				
TRA12 1150	615 810 089 0	164				
TRA12 1600	615 810 090 0	164				
TRA12 1600 UNI P	615 811 694 0	165				
TRA12 1600 UNI P2	615 811 695 0	165				
TRA12 2100	615 810 091 0	164				
TRA200 1600	615 810 102 0	164				
TRA200 2100	615 810 103 0	164				
TRA200 2100 P	615 811 688 0	165				
TRA200 2100 P2	615 811 689 0	165				
TRA200 2600	615 810 104 0	164				
TRA25 1150	615 810 092 0	164				
TRA25 1600	615 810 093 0	164				
TRA25 2100	615 810 094 0	164				
TRA25 2100 UNI P	615 811 670 0	165				
TRA25 2100 UNI P2	615 811 671 0	165				
TRA25 2600	615 810 095 0	164				
TRA50 1600	615 810 096 0	164				
TRA50 2100	615 810 097 0	164				
TRA50 2100 UNI P	615 811 676 0	165				
TRA50 2100 UNI P2	615 811 677 0	165				
TRA50 2600	615 810 098 0	164				
TWINCVI3	615 932 697 0	29				
V100	129504	272				
Vacuum & Color identifiaction		163				
VP2-X	671094	272	1.3	1.1	70	

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Notes

Conversion table

LENGTH		
1 in.	=	0.0254 m
1 m	=	39.3701 in / 3.2808 ft
1 mm	=	0.0393701 in

WEIGHT		
1 lb	=	0.4536 kg
1 kg	=	2.2046 lb

TORQUE		
1 kpm	=	9.8067 Nm
1 ft-lb	=	1.3558 Nm
1 in-lb	=	0.1130 Nm
1 Nm	=	0.1020 kpm
1 Nm	=	0.7376 ft-lbs

POWER		
1 kpm/s	=	9.8067 W
1 hp	=	745.7 W
1 hp	=	101.972 kpm/s
1 KW	=	1.3410 hp

AIR PRESSURE		
1 bar	=	100 kPa
1 kp/cm² (at)	=	98.0665 kPa
1 psi	=	6.8948 kPa
1 kPa	=	0.0101972 kp/cm² (at)

AIR FLOW		
1 m³/min	=	16.6667 l/s
1 cfm	=	0.4720 l/s
1m³/h	=	0.2778 l/s
1 l/s	=	2.1189 cfm

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RightWay

The key to finding a better way

Desoutter RightWay focuses on six key areas that play an important part in the performance of your production lines.

PRODUCTIVITY
Remove bottlenecks to raise workstation productivity and overall line performance.

QUALITY
Improve the quality of final goods and reduce quality-related costs by implementing advanced error-proofing solutions that detect and fix defects at the workstation.

ERGONOMICS
Reduce work-related musculoskeletal disorders to improve operator morale, cut absenteeism and minimize operator turnover.

SAFETY
Fewer on-the-job injuries and the costs associated with lost time and medical costs.

ENERGY
Fight rising energy costs by adopting energy-efficient best practices and technologies.

PLANNING
Help you accelerate process improvement projects by providing your planning department with valuable resources and expertise.

Desoutter RightWay uses a unique **4-step methodology** to identify workable improvements to your production line. Our solutions combine real-world insights gathered directly from your production line with our unmatched expertise in tool systems for your industry.

1 ANALYSE
ON THE FACTORY FLOOR

Desoutter RightWay begins with a 6-point on-site audit of your entire line, workstations and operator ergonomics. Our expert visits the line with you gathering information and observations about your requirements in the six key domains: productivity, quality, ergonomics, safety, energy consumption and process planning.

2 PROPOSE
DEMONSTRATING FEASIBILITY

Using the results of our Desoutter RightWay audit, the data you provide and our best practices in similar applications, we design and test a custom solution that is perfectly suited to your requirements. In addition, we demonstrate the solution in real-world conditions to show you first-hand how it resolves your issues and concerns.

3 PROVE
PROVE THE PAYBACK

Based on the proposed solution, we calculate the return on investment and the payback in terms of the six domains mentioned earlier. We also propose error-proofing solutions, calculate duty cycles and analyze joint quality for assembly applications.

4 FOLLOW-UP
IMPLEMENTATION AND SUPPORT

Finally, we work with your line engineers to organize the smooth and timely deployment of the new tool system. Over the life of the system, we will continue to monitor performance and use this feedback to make any adjustments that may be required as your line evolves. We also provide all the preventive maintenance and fixed-price servicing called for in the ROI calculations.

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