22M-2327

Double Reduction Rotary Vane Power Motor



For additional product information visit our website at http://www.apextoolgroup.com

10/20/2014

Cleco® Specifications

Model Number	Maximum RF	Stall Torque		Weight		Overall Length		Air Consumption		Gear Ratio	Exhaust	
	@ Max. HP	Free Speed	ft. lbs.	Nm	lbs.	kg	in.	mm	cfm	m3/min	Kalio	
Flange and Base Mounting - Reversible - 5/64"-12" Capacity Drill Chuck												
22M-2327	250	500	19.6	26.56	3.06	1.39	7.88	200	29	0.82	3.48:1	Side

Cleco®

Product Information

The original language of this manual is English.

Product Safety Information:

Intended Use:

This pneumatic motor is to be used exclusively as a power source to be integrated into an application.

For additional product safety information refer to Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG document CE-2005, General Safety Instructions for Air Motors.



The motor must not be modified in any manner unless approved in writing by Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG. All safety devices must be properly installed and maintained in good working order.

Declaration of Incorporation:

We affirm that this machine complies with the basic requirements of the following directives (2006/42/EC) and is intended for installation / assembly in a / with other machine(s). Commissioning of the incomplete machine is prohibited until such time that the incomplete machine has been incorporated in a machine that complies with the EC Machinery Directive 2006/42/EC and for which there is an EC Declaration of Conformity in accordance with Appendix II A. We furthermore declare that the special technical documention for the incomplete machine is in accordance with Appendix VII Part B. We undertake to have it passed on to the market surveillance body upon request by our representative for the compilation of technical documentation. The following Sections of Appendix I of Directive 2006/42/EC have been fulfilled: 1.1.2, 1.1.3, 1.1.5, 1.3.2, 1.3.4, 1.5. Applied harmonized standards are ISO 12100-1: 2004-04, ISO 12100-2:2004-04.

The name, job function and address of the person authorized to compile the technical file.

Mr. Vishnu Irigireddy Director of Global R&D- Mechanical Engineering Apex Tool Group 670 Industrial Drive Lexington, SC 29072

Signature: Vishnu Irigireddy Date: October 10, 2014

I. V. Wishnu Varollan

Air Line Lubrication:

Use Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG's lightweight air tool oil 500021 (available in quantities shown in the following chart) or an SAE-5 lightweight spindle oil.

Part No.	Packaged	Designation		
540397	1 Quart (0.94 liter)	Airlube 10W/NR-420LB DR		
533485	1 US Gallon (3.78 liter)	Airlube 10W/NR-420LB DR		

Recommended Grease:

Part No.	Packaged	Designation		
A123771	16 oz. (04.5 kg)	Shell Alvania ® EP 00		
540450	16 oz. (04.5 kg)	Chevron Black Pearl ® EP NLgl		

Air Supply Line:

Parameter	Description
Air Hoos	Minimum inside diameter:
Air Hose	5/16" (7.9mm) I.D. Max. length 10' (3m) 3/8" (9.5mm) I.D. Length over 10' (3m)
Working	60-100 psi (414-689 kPa)
pressure range	Performance rated at: 90 psi (620 kPa)
	Air quality according to ISO 8573-1, quality
Compressed air	class 2.4.3
	The compressed air must be clean and dry.

Service and Repair:

Tool service and repair should be performed by an authorized Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG Center. Refer to the last page of this manual for locations.

Disposal:

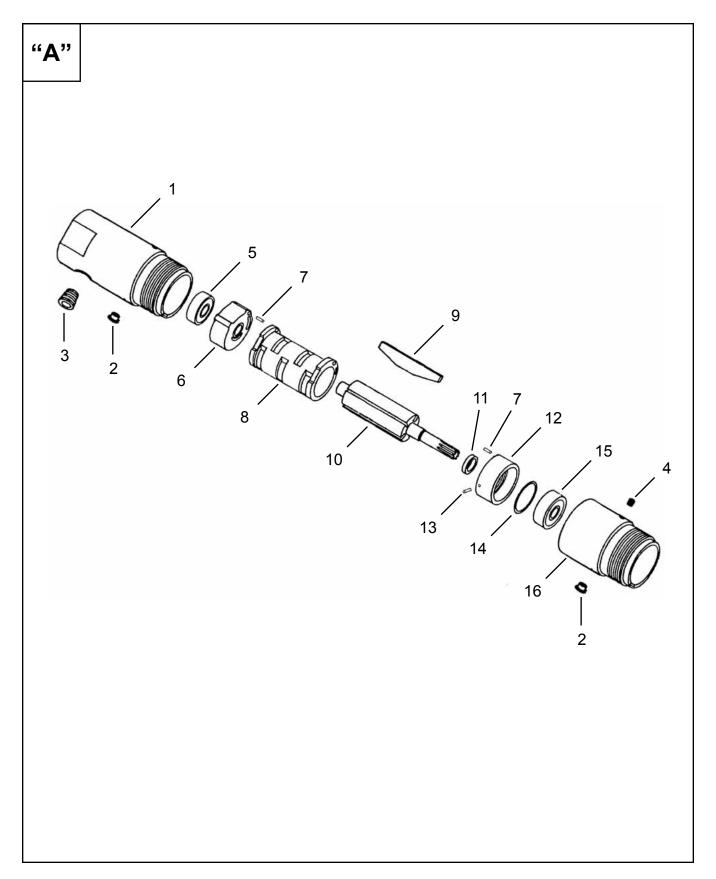


Observe local disposal guidelines for all components of this tool and its packaging.

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Cleco® Motor Assembly



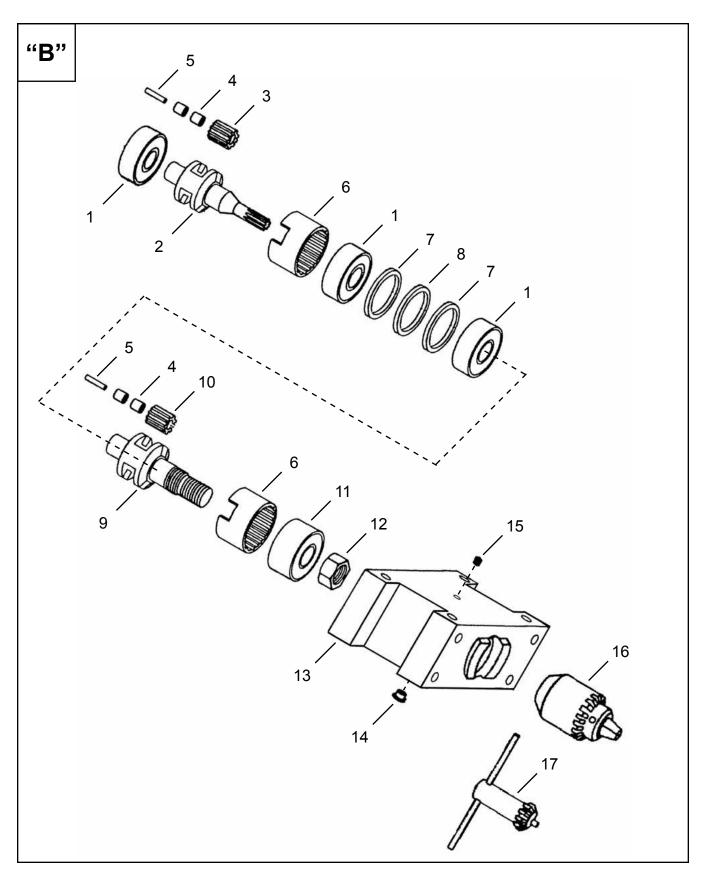
Cleco® Motor Assembly

Illustration "A": Motor Assembly

Ref	Ref Number	#	x	EN
itel itulibel			_^_	Description
1	02-7131	1		Motor Housing (includes 1 Ref. 2)
2	1664	2	4	Grease Fitting
3	2957	2	4	Pipe Plug (1/4-18 NPTF)
4	2831	1	2	Set Screw (#10-32)
5	538PT	1	2	Ball Bearing
6	7061PT	1		Bearing Plate (includes 1 Ref. 7)
7	1041	2	4	Pin
8	7099PT	1		Cylinder
9	2906	4	8	Rotor Blade
10	7656S	1		Rotor (includes Ref. 11)
11	2017PT	1		Rotor Spacer
12	2959	1		Bearing Plate (includes 1 Ref. 7 and Ref. 13)
13	2964	1	2	Pin
14	2488PT	1	2	Shim Packet
15	500PT	1	2	Ball Bearing
16	2720PT	1		Center Housing (includes 1 Ref. 2)

^(#) Quantity
(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

Cleco® Gearing Assembly



Page 6

Cleco® **Gearing Assembly**

Illustration "B": Gearing Assembly

Pof	Ref Number	#	x	EN		
Number		- "		Description		
1	556	3	6	Ball Bearing		
2	2848	1		Planetary Gear Carrier		
3	2809PT	2	4	Planetary Gear (17T) (includes 2 Ref. 4)		
4	1464	8	16	Planetary Gear Needle Bearing		
5	2509PT	4	8	Planetary Gear Shaft		
6	2533PT	2		Ring Gear		
7	2022PT	2		Bearing Spacer		
8	208542PT	1		Shim (1.56 x 1.21 x .005)		
9	02-7134	1		Planetary Gear Carrier		
10	2956	2	4	Planetary Gear (15T) (includes 2 Ref. 4)		
11	557	1	2	Double Ball Bearing		
12	2958	1	1	Lock Nut		
13	2819PT	1		Flange and Base Mounting Planetary Housing (includes Ref. 14)		
14	1664	1	2	Grease Fitting		
15	2831	1	2	Set Screw		
16	14-2547B	1	1	1/2" Drill Chuck (includes Ref. 17)		
17	14-2549	1	2	Chuck Key		

^(#) Quantity (X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

⁽T) Teeth

Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

Brazil

Apex Tool Group Ind. Com. Ferram. Ltda Av. Liberdade, 4055 Zona Industrial Iporanga

Sorocaba, São Paulo CEP# 18087-170 Brazil

Tel: +55 15 3238 3820 Fax: +55 15 3238 3938

Canada

Apex Tool Group Sales & Service Center

7631 Bath Road Mississauga, Ont. L4T 3T1 Canada

Tel: (866) 691-6212 Tel: (905) 673-4400

China

Apex Power Tool Trading (Shanghai) Co., Ltd

Building A8, No. 38 Dongsheng Road Pudong, Shanghai China 201201

Tel: +86-21-60880320 Fax: +86-21-60880298 www.aptspowertools.com.cn

England

Apex Tool Group GmbH & Co. OHG

C/O Spline Gauges Piccadilly, Tamworth Staffordshire B78 2ER United Kingdom

Tel: +44 1827 872 771 Fax: +44 1827 8741 28 France

Apex Tool Group S.N.C. 25 rue Maurice Chevalier B.P. 28

77831 Ozoir-La-Ferrière Cedex, France

Tel: +33 1 64 43 22 00 Fax: +33 1 64 43 17 17

Germany

Apex Tool Group GmbH & Co. OHG

Industriestraße 1 73463 Westhausen Germany

Tel: +49 (0) 73 63 81 0 Fax: +49 (0) 73 63 81 222 www.apexpowertools.eu

Hungary

Apex Tool Group Hungaria Kft

Platànfa u.2 9027 Györ Hungary

Tel: +36 96 66 1383 Fax: +36 96 66 1135

India

Apex Power Tools India Private Limited

Gala No. 1, Plot No. 5 S. No. 234, 235 & 245 Indialand Global Industrial Park Taluka-Mulsi, Phase I Hinjawadi, Pune 411057 Maharashtra, India Tel: +91-20-66761111 Mexico

Apex Tool Group Manufacturing México S. de RL de CV

Vialidad El Pueblito #103 Parque Industrial Querétaro Querétaro, QRO CP# 76220

Mexico

Tel: +52 (442) 211-3800 Fax: +52 (800) 685-5560

USA - Detroit, Michigan

Apex Tool Group Sales & Service Center 2630 Superior Court

Auburn Hills, MI 48326 Tel: (248) 393-5640 Fax: (248) 391-6295

USA - Lexington, South Carolina

Apex Tool Group 670 Industrial Drive Lexington, SC 29072

Tel: (800) 845-5629 Tel: (803) 951-7544 Fax: (803) 358-7681

USA - Los Angeles, California

Apex Tool Group Sales & Service Center 6881 Stanton Avenue

Unit B

Buena Park, CA 90621 Tel: (714) 994-1491 Fax: (714) 994-9576 USA - Seattle, Washington

Apex Tool Group Sales & Service Center 2865 152nd Avenue N.E Redmond, WA 98052

Tel: (425) 497-0476 Fax: (425) 497-0496

USA - York, Pennsylvania

Apex Tool Group Sales & Service Center 3990 East Market Street

York, PA 17402 Tel: (717) 755-2933 Fax: (717) 757-5063

Apex Tool Group, LLC 1000 Lufkin Road Apex, NC 27539 Phone: 919-387-0099 Fax: 919-387-2614 www.apextoolgroup.com Cleco

