STATEMENT OF USE
Product is designed for installing and removing threaded fasteners in wood, metal and plastic.

REQUIREMENTS
This tool requires a 36V DC supply and is to be operated through a controller on a 42V DC supply. Units available are listed below:
- ESP1 Power module requires mains voltage supply, provides single 42V DC output.
- ESP2 Power module requires mains voltage supply, provides five 42V DC outputs.
- ESP3 Controller unit provides three running options.
- ESP4 Controller unit provides several running options and a 9 position speed selector switch.
- ESP5 Combined power and controller module requires mains voltage supply, provides one running option.
Where controllers have Manual or Automatic mode options, this tool may be used in either mode.

ACCESSORIES
A range of accessories are available and suitable items should be selected from the relevant Desoutter catalogue.

WARNING
BEFORE USING, INSTALLING, REPAIRING OR CHANGING ACCESSORIES, READ AND UNDERSTAND THESE INSTRUCTIONS.

1. Tool operates through a 36V DC supply - do not connect directly to the mains.
2. Disconnect the power supply before handling the screwdriver bit or socket or dismantling the tool.
3. Keep loose articles of clothing or long hair away from the tool when in use.
4. Hold the tool correctly; be ready to counteract normal or sudden movements - have both hands available.
5. Do not use in confined spaces; beware of crushing hands or other objects between the tool and workplace, especially when unscrewing.
6. Immediately after adjusting the clutch, check for correct operation.
7. Do not use in warm condition; the clutch may not operate, resulting in sudden rotation of the tool handle.
8. Ensure that the workplace is properly supported.
9. Must not be used in explosive atmospheres.
10. Power tools are not insulated from coming into contact with electric power.

OPERATING INSTRUCTIONS
With the correct accessory fitted, connect the tool through the controller to the power supply.
Select the appropriate programme on the controller from the normal/slow start, auto reverse and timed reverse options.
Grip the tool around the motor case and press the tool into the fixing that is to be tightened; the motor will start when the controller is in Automatic mode.
When in manual mode the motor will not start until the RUN button is pressed.
The fixing is tightened to the required torque set by adjusting the tension on the clutch spring.
The clutch resets when the tool is lifted from the tightened fixation.
To engage reverse rotation press the reverse button and hold the tool against the fastener.
NOTE: In tools with standard clutches, the torque control does not operate in reverse, the torque output in reverse equals motor stall torque.
Do not allow tool to stall for more than one second.
Default push start rotation is clockwise; this may be changed by pressing both run and reverse buttons together five seconds, then releasing both together, followed by pressing either run button (clockwise) or the reverse button (anti-clockwise).

MAINTENANCE INSTRUCTIONS
Lubrication
157535 = Molykote Plastigel PG75
273275 = BP C6619
208803 = Roel M204G

Do not apply grease on the bearing, only lightly coat.
Use only the minimum amount of grease to locate components when assembling.

Assembly and Dismantling
Follow normal engineering practices and with references to the illustration build the components into sub-assemblies.
Depress the latch within contact housing (11) to remove respective wire.
The NORTH POLE (white paint) of magnet (18) MUST be assembled into the transmission shaft (22) FIRST.

Set the Hall Effect
Remove case halves (5) and screws (1).
Place the Hall Effect Carrier assembly as fully forward as adjustment will allow and retain with screws (3) very lightly.
Ensure motor GREY wire is connected to `+` motor terminal.
Connect to controller; set for automatic operation; switch on mains supply; the motor should RUN.
Move the Hall Effect Carrier assembly towards the motor, noting when the motor switches OFF.
From this point move the Hall Effect Carrier assembly FORWARD ONE INCREMENT 0.5-1.0mm.

NOTE: The Hall Effect Carrier adjustment is in increments of 0.5mm.
Switch off power supply, tighten screws (3) and replace case halves.

DATA
Rated Current = 0.4 amps.
Sound Pressure Level (dB) = 54 ± 2 re. CAGI-PNEUROP Test code
Vibration Level (m/s²) = < 2.5 re. ISO 8662
Weight = 0.26kg.

TORQUE RANGE
Clutch Spring

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>PART No.</th>
<th>TOOL SPEED</th>
<th>TORQUE RANGE Ncm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>280413</td>
<td>1000</td>
<td>35 - 55 (3.0-4.8bf.ft)</td>
</tr>
<tr>
<td>Blue</td>
<td>280418</td>
<td>800</td>
<td>35 - 75 (2.0-6.5bf.ft)</td>
</tr>
<tr>
<td>Blue</td>
<td>280419</td>
<td>500</td>
<td>35 - 80 (2.0-7.5bf.ft)</td>
</tr>
<tr>
<td>Green</td>
<td>280423</td>
<td>800 &amp; 500</td>
<td>15 - 50 (1.3-4.3bf.ft)</td>
</tr>
<tr>
<td>Red</td>
<td>280433</td>
<td>1000,800,500</td>
<td>5 - 20 (0.5-1.7bf.ft)</td>
</tr>
<tr>
<td>Green</td>
<td>280424</td>
<td>1000</td>
<td>15 - 40 (1.3-3.5bf.ft)</td>
</tr>
</tbody>
</table>

ACCESSORIES

Yellow 301722 1000,800,500 3.5 - 8 (0.31-0.7bf.ft)
Natural 280443 1000,800,500 2.5 - 7 (0.17-0.5bf.ft)

Part No. 280513 280533 280543 292593

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