



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

**Handheld Screwdriver
pneumatic**

MINIMAT Control Screwdrivers

The basic solution for almost all screwdriving tasks
straight handle design - torque from 0.2 - 20 Nm (2 to 177 in.lbs)

- robust
- highest precision
- ergonomic
- long-life
- low noise level

The particular strength of the MINIMAT control screwdriver in straight handle design is that it can carry out screw assemblies with torque ranges from 0.2 Nm to 20 Nm.

In these ranges you can not only assemble screws but also adjust them.

The ergonomic MINIMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use.

The MINIMAT clutch works with the tried and tested principle of a mechanical separation and shut-off clutch.

This highly precise shut-off clutch allows torque precision of $< \pm 3\%$ standard deviation, which is maintained for millions of assemblies.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a Cmk value of ≥ 1.67 with $\pm 10\%$ tolerance in relation to 6 Sigma according to ISO 5393.

In other words a Cmk value of 1.67 means that there is a failure rate of 0.6 per million screw assemblies.



TECHNICAL DATA

| Screwdriver Style | | Motor Size 1 | | | |
|-----------------------------------|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Driver reversible, right shut-off | Type | 347-218 U | 347-318 U | 347-518 U | 347-618 U |
| Push To Start | Part no. | 397060 A | 397060 B | 397060 C | 397060 D |
| Screws | up to | M3 | M3 | M3 | M3 |
| Torque min. | Nm/in.lbs | 0.3/2.7 | 0.3/2.7 | 0.2/1.8 | 0.2/1.8 |
| Torque max. | Nm/in.lbs | 1/8.85 | 1.4/12.4 | 2/17.7 | 2/17.7 |
| Speed, idling | rpm | 1900 | 1300 | 900 | 600 |
| Air consumption | m ³ /min/cfm | 0.23/8 | 0.23/8 | 0.23/8 | 0.23/8 |
| Main body dia. | mm/in | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ | 28/1 ¹ / ₈ |
| Length | mm/in | 203/7.9 | 203/7.9 | 203/7.9 | 203/7.9 |
| Weight | kg/lbs | 0.4/0.9 | 0.4/0.9 | 0.4/0.9 | 0.43/0.95 |
| Noise level | dB (A) | 62 | 62 | 62 | 62 |
| Air hose dia. | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ |
| Hose dia for screw suction | mm/in. | 3 ¹ / ₈ | 3 ¹ / ₈ | 3 ¹ / ₈ | 3 ¹ / ₈ |
| Internal hex. drive DIN ISO 1173 | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") |
| Quick change chuck, mounted | | yes | yes | yes | yes |

Performance data relate to an air pressure of 6.3 bar (90 PSI)

| Screwdriver Style | | Motor Size 2 | | | | |
|-----------------------------------|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Driver reversible, right shut-off | Type | 347-228 U | 347-728 U | 347-328 U | 347-428 U | 347-528 U |
| Push To Start | Part no. | 386363 A | 386363 E | 386363 B | 386363 D | 386363 C |
| Driver reversible, right shut-off | Type | 347-221 U | 347-721 U | 347-321 U | 347-421 U | 347-521 U |
| Lever Start | Part no. | 386364 A | 386364 E | 386364 B | 386364 D | 386364 C |
| Screws | up to | M4 | M4 | M4 | M4 | M5 |
| Torque min. | Nm/in.lbs | 0.5/4.4 | 0.4/3.5 | 0.4/3.5 | 0.4/3.5 | 0.3/2.7 |
| soft pull-up max. | Nm/in.lbs | 1.3/11.5 | 1.8/15.9 | 2.4/21.2 | 3.5/31 | 5/44.3 |
| hard pull-up max. | Nm/in.lbs | 1.8/15.9 | 2.0/17.7 | 2.8/24.8 | 4/35.4 | 5/44.3 |
| Speed, idling | rpm | 3000 | 1600 | 1100 | 750 | 500 |
| Air consumption | m ³ /min/cfm | 0.3/11 | 0.3/11 | 0.3/11 | 0.3/11 | 0.3/11 |
| Main body dia. | mm/in | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ | 33/1 ⁵ / ₁₆ |
| Length | mm/in | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ | 223/8 ²⁵ / ₃₂ |
| Weight | kg/lbs | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 | 0.69/1.5 |
| Noise level | dB (A) | 67 | 67 | 67 | 67 | 67 |
| Air hose dia. | mm/in. | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ | 6 ¹ / ₄ |
| Internal hex. drive DIN ISO 1173 | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") |
| Quick change chuck, mounted | | yes | yes | yes | yes | yes |

Performance data relate to an air pressure of 6.3 bar (90 PSI)



Standard Equipment

Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Optional Equipment

| | | Motor Size 1 | Motor Size 2 |
|---|----------|--------------|--------------|
| Exhaust hose (1 m / 3.3 ft.) | Part no. | 402957 D | 389653 A |
| Support ring for screwdriver with push to start | Part no. | 3870321 | 389775 A |
| Spring sleeve cpl. | Part no. | 364672 A | 364672 A |
| Spring sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting tools D 3320 E) | Part no. | 364672 A | 364672 C |
| Spring sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting tools D 3320 E) | Part no. | 364672 B | 364672 F |
| Foam rubber grip | Part no. | 821702 | 821703 |

TECHNICAL DATA

| Screwdriver Style | | Motor Size 2.5 | | | Motor Size 3 | | | |
|--|-------------------------|------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Driver reversible, right shut-off Push To Start | Type Part no. | 345-7258U 351568 A | 345-3258U 351568 B | 345-4258U 351568 C | 346-238U 396188 B | 346-738U 396188 C | 346-338U 396188 D | 346-438U 396188 E |
| Driver reversible, right shut-off Lever Start | Type Part no. | 345-7251U 384354 A | 345-3251U 384354 B | 345-4251U 384354 C | – – | 346-731U 398684 C | 346-331U 398684 D | 346-431U 398684 E |
| Screws | up to | M5 | M6 | M6 | M5 | M6 | M6 | M8 |
| Torque | min. | Nm/in.lbs | 1/8.85 | 1/8.85 | 1/8.85 | 2/17.7 | 2/17.7 | 2/17.7 |
| soft pull-up | max. | Nm/in.lbs | 5/44.3 | 10/88.5 | 12/106.2 | 4.5/39.8 | 7/62 | 12/106.2 |
| hard pull-up | max. | Nm/in.lbs | 6/53.1 | 10/88.5 | 12/106.2 | 5.5/48.7 | 8/70.8 | 12/106.2 |
| Speed, idling | | rpm | 1100 | 640 | 310 | 2300 | 1200 | 650 |
| Air consumption | | m ³ /min/cfm | 0.35/12 | 0.35/12 | 0.35/12 | 0.4/14 | 0.4/14 | 0.4/14 |
| Main body dia. | | mm/in. | 40/1 ⁹ / ₁₆ | 40/1 ⁹ / ₁₆ | 40/1 ⁹ / ₁₆ | 44/1 ³ / ₄ | 44/1 ³ / ₄ | 44/1 ³ / ₄ |
| Length | | mm/in. | 245/9 ⁵ / ₈ | 245/9 ⁵ / ₈ | 245/9 ⁵ / ₈ | 299/11 ²⁵ / ₃₂ | 299/11 ²⁵ / ₃₂ | 299/11 ²⁵ / ₃₂ |
| Weight | | kg/lbs | 0.9/2 | 0.9/2 | 0.9/2 | 1.36/3 | 1.5/3.3 | 1.5/3.3 |
| Noise level | | dB (A) | 76 | 76 | 76 | 73 | 73 | 73 |
| Air hose dia. | | mm/in. | 6/1/4 | 6/1/4 | 6/1/4 | 6/1/4 | 6/1/4 | 6/1/4 |
| Internal hex. drive DIN ISO 1173 | | | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") | F6.3 (1/4") |
| Quick change chuck, mounted | | | yes | yes | yes | yes | yes | yes |

Performance data relate to an air pressure of 6.3 bar (90 PSI)

Standard Equipment

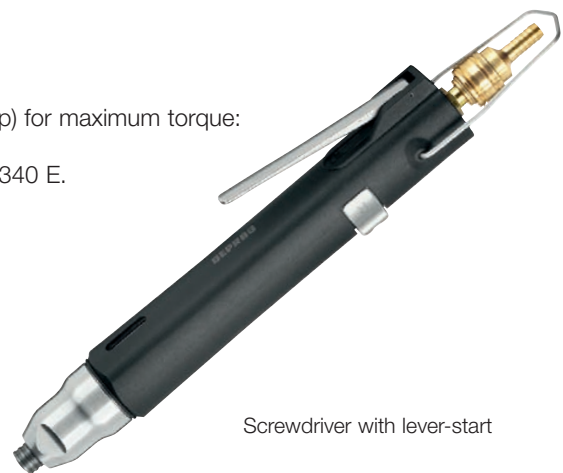
Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Optional Equipment

| | | Motor Size 2.5 | Motor Size 3 |
|---|----------|----------------|--------------|
| Exhaust hose (0.6 m / 2 ft.) | Part no. | 362734 | 398703 A |
| Support ring for screwdriver with push to start | Part no. | – | 398704 A |
| Spring sleeve cpl. | Part no. | 364680 A | 364672 A |
| Spring sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting tools D 3320 E) | Part no. | 364680 D | 364672 C |
| Spring sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting tools D 3320 E) | Part no. | 364680 D | 364672 F |
| Foam rubber grip | Part no. | – | 821704 |
| Handle | Part no. | 360749 | 328756 A |



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque: over 4 Nm for straight design.
Suitable torque supports can be found in our brochure D 3340 E.



Screwdriver with lever-start

Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 – E6.3 (1/4"), see also our brochure D 3320 E.

Note: The screwdrivers motor size 2.5 and 3 are also available in connection with screw feeders (see brochure D3820E).

DEPRAG

DEPRAG SCHULZ GMBH u. CO.

P.O. Box 1352, D-92203 Amberg, Germany
Carl-Schulz-Platz 1, D-92224 Amberg
Phone (+49) 9621 371-0, Fax (+49) 9621 371-120
www.deprag.com
info@deprag.de



CERTIFIED AS PER DIN EN ISO 9001
