

MICROMAT Screwdrivers

The basic solution for almost all screwdriving tasks

straight design - torque from 0.02 to 0.7 Nm (3 to 97 in.oz)

- robust
- completely accurate
- ergonomic, long life, quiet

The particular strength of the MICROMAT screwdriver - scarcely larger than a pen - is that it can carry out screw assemblies with torque ranges from 2 Ncm to 70 Ncm.

The slim MICROMAT screwdriver is extremely durable. This is ensured by its specific design for heavy industrial use and its extraordinary processing quality. The ergonomic design of the handle guarantees ease of use during continuous operation.

The MICROMAT clutch works with the tried and tested principle of a mechanical disengagement and shut-off clutch. This extremely accurate shut-off clutch allows torque precision of $< \pm 3\%$ standard deviation, which is maintained for millions of screw assemblies.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a Cmk value of ≥ 1.67 with a tolerance requirement of $\pm 10\%$ 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.

Handheld Screwdriver pneumatic



TECHNICAL DATA

| Screwdriver Style | | Motor Size 0 | | | | Motor Size 0 with seek-function*) |
|--|-------------------------|---|------------------------------------|--|-------------------------------------|--|
| Screwdriver right-rotation, right shut-off Push-To-Start | Type Part no. | 345-308 339267A | 345-408 345763A | 345-708 385162A | 345-508 339268A | 345-508-2 341337B |
| Screwdriver In combination with feeder | Type Part no. | 345Z-308 338053A | 345Z-408 338053E | 345Z-708 338053G | 345Z-508 338053B | - - |
| Screws | up to | M3 | M3 | M3 | M3 | M3 |
| Torque min. | Ncm/in.oz | 2/2.84 | 2/2.84 | 2/2.84 | 2/2.84 | 2/2.84 |
| soft pull-up max. | Ncm/in.oz | 50/71 | 55/78.1 | 70/99.4 | 70/99.4 | 70/99.4 |
| hard pull-up max. | Ncm/in.oz | 60/85.2 | 55/78.1 | 70/99.4 | 70/99.4 | 70/99.4 |
| Speed, idling | rpm | 1600 | 1100 | 600 | 350 | 80/350 |
| Air consumption | m ³ /min/cfm | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 |
| Main body dia. | mm/in. | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ |
| Length / length version "Z" | mm/in. | 152/6 / 123/4 ²⁷ / ₃₂ | | 158/6 ⁷ / ₃₂ / 130/5 ¹ / ₈ | | 158/6 ⁷ / ₃₂ / - |
| Weight | kg/lbs | 0.15/0.33 | 0.15/0.33 | 0.16/0.35 | 0.16/0.35 | 0.16/0.35 |
| Noise level | dB(A) | 65 | 65 | 65 | 65 | 65 |
| Air hose dia. | mm/in. | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ |
| Hose dia. for screw suction | mm/in. | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ |
| Internal hex. drive DIN ISO 1173 | | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") |
| Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 | | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") |
| Quick change chuck, mounted | | yes | yes | yes | yes | yes |
| Screwdriver reversible, right shut-off Push-To-Start | Type Part no. | 345-308U 339269A | 345-408U 345764A | 345-708U 385163B | 345-508U 339270A | 345-508U2 341124B |
| Screws | up to | M3 | M3 | M3 | M3 | M3 |
| Torque min. | Ncm/in.oz | 2/2.84 | 2/2.84 | 2/2.84 | 2/2.84 | 2/2.84 |
| soft pull-up max. | Ncm/in.oz | 40/56.8 | 50/71 | 70/99.4 | 70/99.4 | 70/99.4 |
| hard pull-up max. | Ncm/in.oz | 50/71 | 50/71 | 70/99.4 | 70/99.4 | 70/99.4 |
| Speed, idling | rpm | 1300 | 950 | 480 | 300 | 70/300 |
| Air consumption | m ³ /min/cfm | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 | 0.1/3.5 |
| Main body dia. | mm/in. | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ | 17/1 ¹ / ₁₆ |
| Length | mm/in. | 167/6 ⁹ / ₁₆ | 167/6 ⁹ / ₁₆ | 173/6 ¹³ / ₁₆ | 173/6 ¹³ / ₁₆ | 173/6 ¹³ / ₁₆ |
| Weight | kg/lbs | 0.17/0.38 | 0.17/0.38 | 0.18/0.40 | 0.18/0.40 | 0.18/0.40 |
| Noise level | dB(A) | 65 | 65 | 65 | 65 | 65 |
| Air hose dia. | mm/in. | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ |
| Hose dia. for screw suction | mm/in. | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ | 3/1 ¹ / ₈ |
| Drive hex. female | | 3 mm/.118" | 3 mm/.118" | 3 mm/.118" | 3 mm/.118" | 3 mm/.118" |
| Internal hex. drive DIN ISO 1173 | | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") | B3 (3 mm/.118") |
| Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 | | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") | A3 (3 mm/.118") |
| Quick change chuck, mounted | | yes | yes | yes | yes | yes |

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

Included in delivery:

Hose coupling with nozzle, nipple (mounted) · Torque adjustment tool · Assortment of clutch springs

Optional Equipment

| | | |
|---|----------|---------|
| Exhaust hose (1m/3.28ft.) | Part no. | 806113 |
| Spring sleeve cpl. (in connection with finder, see leaflet: inserting tools D3320E) | Part no. | 364670A |
| Foam rubber grip | Part no. | 833058 |

Please also find tool inserts in our brochure D3320E.

*) For ornamental screws with a scratch sensitive surface, we recommend the use of our MICROMAT screwdrivers with an integrated seek-function. This option allows the bit to engage with the screw drive at a lowered speed. Once full down-pressure is applied, the screw is then assembled with the rated full speed. For this screwdriver type we recommend a possibility of interruption of air supply.

Details on our feeding systems can be found in brochure D3820E.

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001