



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

**Handheld Screwdriver
pneumatic**

MICROMAT Control 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 test screwdriver - scarcely larger than a pen - is that it can carry out screw assemblies with very small torque ranges from 2 Ncm to 70 Ncm. In these ranges you can not only assemble screws but also adjust them.

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 $\pm 10\%$ 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 0				Motor Size 0 with seek-function*)	
		345-308	345-408	345-708	345-508	345-508-2	
Screwdriver right-rotation, right shut-off Push-To-Start		Type Part no.	345-308 339267 A	345-408 345763 A	345-708 385162 A	345-508 339268 A	345-508-2 341337 B
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		mm/in.	152/6	152/6	158/6 ⁷ / ₃₂	158/6 ⁷ / ₃₂	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 3126	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 3126			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 339269 A	345-408U 345764 A	345-708U 385163 B	345-508U 339270 A	345-508 U2 341124 B
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 3126	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 3126			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)

Standard Equipment

Hose coupling with nozzle, nipple (mounted)
Range of Torque Adjustment Tools
Range of Clutch Springs

Optional Equipment

Exhaust Hose (1 m / 3.28 ft.)	Part no.	806113
Spring-Sleeve cpl. (in connection with finder, see leaflet: Inserting Tools D 3320 E)	Part no.	364670 A
Foam rubber grip	Part no.	833058

Please also find tool inserts in our brochure D 3320 E.

*) 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.

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001