

Handheld Screwdriver pneumatic



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.

Torque accuracies of < 3% standard deviation and thus Cmk values of ≥ 1.67 with a tolerance of $\pm 15\%$ can be reached * with MICROMAT handheld screwdrivers. Statistically speaking, the error rate is less than 0.6 per one million screw assemblies.

*) under suitable process conditions



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 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / 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 / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈
Hose dia. for screw suction	mm/in.	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 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 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / ₁₆	17 ¹¹ / 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 / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈
Hose dia. for screw suction	mm/in.	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 ¹ / ₈	3 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 catalog: inserting tools D3320E)	Part no.	364670A
Foam rubber grip	Part no.	833058

Please also find tool inserts in our catalog 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 catalog D3820E.

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