

## 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  $\geq 1.67$  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.



## TECHNICAL DATA

Screwdriver Style		Motor Size 0				Motor Size 0 with seek-function*)
Screwdriver right-rotation, right shut-off Push-To-Start	<b>Type</b> Part no.	<b>345-308</b> 339267A	<b>345-408</b> 345763A	<b>345-708</b> 385162A	<b>345-508</b> 339268A	<b>345-508-2</b> 341337B
Screwdriver In combination with feeder	<b>Type</b> Part no.	<b>345Z-308</b> 338053A	<b>345Z-408</b> 338053E	<b>345Z-708</b> 338053G	<b>345Z-508</b> 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 <sup>3</sup> /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 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>
Length / length version "Z"	mm/in.	152/6 / 123/4 <sup>27</sup> / <sub>32</sub>		158/6 <sup>7</sup> / <sub>32</sub> / 130/5 <sup>1</sup> / <sub>8</sub>		158/6 <sup>7</sup> / <sub>32</sub> / -
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 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>
Hose dia. for screw suction	mm/in.	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>
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	<b>Type</b> Part no.	<b>345-308U</b> 339269A	<b>345-408U</b> 345764A	<b>345-708U</b> 385163B	<b>345-508U</b> 339270A	<b>345-508U2</b> 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 <sup>3</sup> /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 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>	17 <sup>11</sup> / <sub>16</sub>
Length	mm/in.	167/6 <sup>9</sup> / <sub>16</sub>	167/6 <sup>9</sup> / <sub>16</sub>	173/6 <sup>13</sup> / <sub>16</sub>	173/6 <sup>13</sup> / <sub>16</sub>	173/6 <sup>13</sup> / <sub>16</sub>
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 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>
Hose dia. for screw suction	mm/in.	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>
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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