

## MICROMAT-D / MINIMAT-D Screwdrivers straight design / pistol grip design

from 0.02 - 5 Nm (0.2 - 44 in.lbs)

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

MICROMAT-MINIMAT-D drivers are screwdrivers specifically modified for the assembly of impact and vibration-sensitive prefabricated parts, such as the assembly of electronic components, especially disk drives, etc.

The integrated "soft-touch" clutch significantly reduces the transferred impact and the resultant vibrations.

Our straight screwdrivers with ergonomically shaped housing for low-fatigue operation are used preferably in vertical applications and the pistol grip design with optimized ergonomics for predominant horizontal applications. The pistol grip driver is also available with an upper air-inlet. The straight screwdriver has a push-to-start function and the pistol grip a trigger-start.

### Handheld Screwdriver pneumatic



Additionally, all soft-touch models have the high quality of the MICROMAT / MINIMAT series.

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  $\leq 3\%$  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  $\geq 1.67$  with 15% 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		Straight Design					
		Motor Size 0	Motor Size 1 *)				
Driver reversible, right shut-off	<b>Type</b>	<b>345-408UD</b>	<b>347-218UD</b>	<b>347-318UD</b>	<b>347-518UD</b>	<b>347-618UD</b>	
Push-to-start	Part no.	382058B	402768A	402768B	402768C	402768D	
Screws	up to	M3	M3	M3	M3	M3	
Torque min.	Nm/in.lbs	0.02 / 0.2	0.3 / 3	0.3 / 3	0.2 / 2	0.2 / 2	
soft pull-up max.	Nm/in.lbs	0.5 / 4.4	1 / 9	1.4 / 12	2 / 18	2 / 18	
hard pull-up max.	Nm/in.lbs	0.5 / 4.4	1 / 9	1.4 / 12	2 / 18	2 / 18	
Speed, idling	rpm	950	1900	1300	900	600	
Air consumption	m <sup>3</sup> /min/cfm	0.1 / 3.5	0.23 / 8	0.23 / 8	0.23 / 8	0.23 / 8	
Main body dia.	mm/in.	17 / 0.66	28 / 1.1	28 / 1.1	28 / 1.1	28 / 1.1	
Length	mm/in.	167 / 6.5	203 / 7.9	203 / 7.9	203 / 7.9	203 / 7.9	
Weight	kg/lbs	0.17 / 0.38	0.4 / 0.9	0.4 / 0.9	0.4 / 0.9	0.43 / 0.95	
Noise level	dB (A)	65	62	62	62	62	
Air hose dia.	mm/in.	3 / 1/8	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	3 / 1/8	
Internal hex. drive DIN ISO 1173		B 3 (3 mm/.118")	F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")	
Quick change chuck, mounted		yes	yes	yes	yes	yes	
Screwdriver Style		Straight Design Motor Size 2			Pistol grip Motor Size 2		
Driver reversible, right shut-off	<b>Type</b>	<b>347-328UD</b>	<b>347-428UD</b>	<b>347-528UD</b>	-	-	-
Push-to-start	Part no.	399414B	399414D	399414C	-	-	-
Driver reversible	<b>Type</b>	-	-	-	<b>347-327UD</b>	<b>347-427UD</b>	<b>347-527UD</b>
Lower air inlet	Part no.	-	-	-	394571B	394571D	394571C
Driver reversible	<b>Type</b>	-	-	-	<b>347-327OUD</b>	<b>347-427OUD</b>	<b>347-527OUD</b>
Upper air inlet	Part no.	-	-	-	394572B	394572D	394572C
Screws	up to	M4	M4	M5	M4	M4	M5
Torque min.	Nm/in.lbs	0.4 / 4	0.4 / 4	0.3 / 3	0.4 / 4	0.4 / 4	0.3 / 3
soft pull-up max.	Nm/in.lbs	2.4 / 21	3.5 / 31	5 / 44	3 / 26	3.5 / 31	5 / 44
hard pull-up max.	Nm/in.lbs	2.8 / 25	4 / 35	5 / 44	3.2 / 28	4 / 35	5 / 44
Speed, idling	rpm	1100	750	500	1100	750	500
Air consumption	m <sup>3</sup> /min/cfm	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11
Distance from spindle centre to side	mm/in.	33 / 1.3	33 / 1.3	33 / 1.3	14.5 / 0.6	14.5 / 0.6	14.5 / 0.6
Length	mm/in.	223 / 8.7	223 / 8.7	223 / 8.7	208 / 8.1	208 / 8.1	208 / 8.1
Weight	kg/lbs	0.69 / 1.5	0.69 / 1.5	0.69 / 1.5	0.75 / 1.6	0.75 / 1.6	0.75 / 1.6
Noise level	dB (A)	67	67	67	69	69	69
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		F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")	F 6.3 (1/4")
Quick change chuck, mounted		yes	yes	yes	yes	yes	yes

**Included in delivery:**

Hose coupling with nozzle and nipple · Range of torque adjustment tools · Range of clutch springs

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

\*) with integrated vacuum line

Optional Equipment	Motor size 0	Motor size 1	Motor size 2 Straight	Motor size 2 Pistol grip
Exhaust hose (1m / 3.3 ft.)	Part no. 806113	402957D	389653A	-
Spring sleeve cpl.	Part no. 364670A	364672A	364672A	364672A
Spring sleeve cpl. with vacuum connection (in connection with finder, see leaflet: Inserting tools D3320E)	Part no. -	364672A	364672C	364672C
Spring sleeve cpl. with vacuum connection (in connection with socket, see leaflet: Inserting tools D3320E)	Part no. -	364672B	364672F	-
Foam rubber grip	Part no. 833058	821702	821703	-

# DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001