



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG



MICROMAT-MINIMAT-ESD-Screwdrivers straight handle design

from 0.02 - 5 Nm (3 in.oz - 44 in.lbs)

- **Torque-controlled Screwdrivers**
- **11 different speeds**
- **All models with integrated Quick Change Chuck**
- **Ergonomic, durable and quiet**

ESD-Screwdrivers are especially designed for the operation in electrostatic exposed areas, and where an ESD-safe assembly is required (specifications according to EN 100 015).

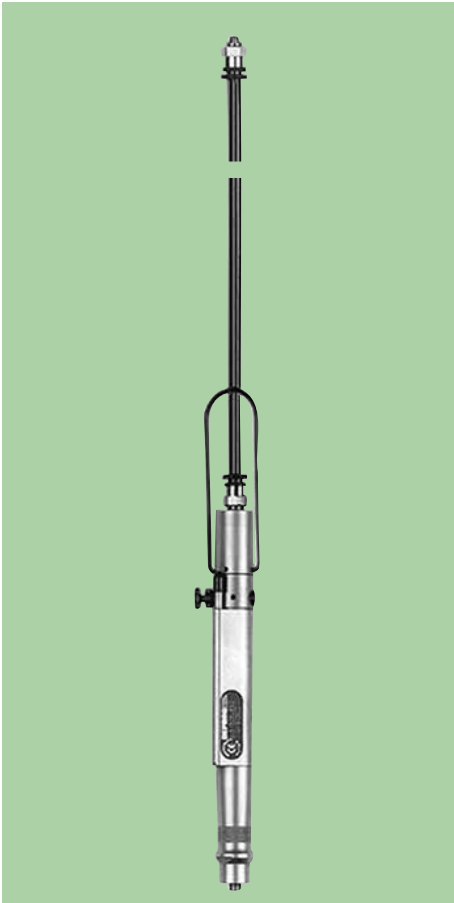
The supplied conductive pressure hose allows a simple, direct and grounded connection, without the need for an additional cable-connection.

Between the air-hose for the tool and the main air-outlet an insulating connector with a

resistance of 1 MΩ (available as an optional item) can be installed.

Like all DEPRAG MICROMAT/MINIMAT drivers, the torque accuracy exceeds any subsequent measuring method and is independent of pressure fluctuations or screw-joint. The drivers are push-to-start.

The ergonomic design of the driver housing assures a fatigue-free operation. The multitude of torque- and speed options, enables an optimal driver adaptation to any given application. Maximum durability is assured because of the possibility to use the drivers in an extreme industrial environment and due to their outstanding operational quality.



Technical Data

Screwdriver Style			Motor Size 0			
Screwdriver reversible, right shut-off Push-To-Start	type order no.		345-308 U ESD 376846 A	345-408 U ESD 376846 B	345-708 U ESD 385164 A	345-508 U ESD 376846 C
screws	up to		M 3	M 3	M 3	M 3
torque	min.	Ncm / in.oz	2 / 3	2 / 3	2 / 3	2 / 3
soft pull-up	max.	Ncm / in.oz	40 / 57	50 / 70	70 / 97	70 / 97
hard pull-up	max.	Ncm / in.oz	50 / 70	50 / 70	70 / 97	70 / 97
speed, idling		rpm	1300	950	480	300
air consumption		m ³ /min / cfm	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
length		mm / in.	167 / 6 ⁹ / ₁₆	167 / 6 ⁹ / 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
noise level		dB (A)	65	65	65	65
air hose dia.		mm / in.	4 / 5/32	4 / 5/32	4 / 5/32	4 / 5/32
connector thread for air-hose			M 5	M 5	M 5	M 5
hose dia. for screw suction		mm / in.	3 / 1/8	3 / 1/8	3 / 1/8	3 / 1/8
internal hex. drive DIN 3126			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 DIN3126			A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118")
quick change chuck, mounted			yes	yes	yes	yes

Screwdriver Style			Motor Size 1			
Screwdriver reversible, right shut-off Push-To-Start	type order no.		347-218 U ESD 403345 A	347-318 U ESD 403345 B	347-518 U ESD 403345 C	347-618 U ESD 403345 D
screws	up to		M 3	M 3	M 3	M3
torque	min.	Nm / in.lbs	0.3 / 3	0.3 / 3	0.2 / 2	0.2/2
soft pull-up	max.	Nm / in.lbs	1 / 9	1.4 / 12	2 / 18	2 / 18
hard pull-up	max.	Nm / in.lbs	1 / 9	1.4 / 12	2 / 18	2 / 18
speed, idling		rpm	1900	1300	900	600
air consumption		m ³ /min / cfm	0.23 / 8	0.23 / 8	0.23 / 8	0.23 / 8
main body dia.		mm / in.	28 / 1 ¹ / ₈	28 / 1 ¹ / ₈	28 / 1 ¹ / ₈	28 / 1 ¹ / ₈
length		mm / in.	190 / 7 ¹ / ₂	190 / 7 ¹ / ₂	190 / 7 ¹ / ₂	198 / 7 ⁵¹ / ₆₄
weight		kg / lbs	0.4 / 0.9	0.4 / 0.9	0.4 / 0.9	0.43 / 0.95
noise level		dB (A)	62	62	62	62
air hose dia.		mm / in.	5 / 3/16	5 / 3/16	5 / 3/16	5 / 3/16
connector thread for air-hose			1/8"	1/8"	1/8"	1/8"
hose dia. for screw suction		mm / in.	3 / 1/8	3 / 1/8	3 / 1/8	3 / 1/8
internal hex. drive DIN 3126			F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")
Suitable tool inserts and connecting components with a drive as per DIN3126			E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")
quick change chuck, mounted			yes	yes	yes	yes

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

Technical Data

Screwdriver Style		Motor Size 2			
		347-228U ESD 392476 A	347-328U ESD 392476 B	347-428U ESD 392476 D	347-528 U ESD 392476 C
Screwdriver reversible, right shut-off Push-To-Start	type order no.				
screws	up to	M 4	M 4	M4	M 5
torque	min.	Nm / in.lbs 0.5 / 5	0.4 / 4	0.4 / 4	0.3 / 3
soft pull-up	max.	Nm / in.lbs 1.3 / 11	2.4 / 21	3.5 / 31	5 / 44
hard pull-up	max.	Nm / in.lbs 1.8 / 16	2.8 / 25	4 / 35	5 / 44
speed, idling	rpm	3000	1100	750	500
air consumption	m ³ /min / cfm	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11
main body dia.	mm / in.	33 / 1 ⁵ / ₁₆	33 / 1 ⁵ / ₁₆	33 / 1 ⁵ / ₁₆	33 / 1 ⁵ / ₁₆
length	mm / in.	223 / 8 ²⁵ / ₃₂	223 / 8 ²⁵ / ₃₂	223 / 8 ²⁵ / ₃₂	223 / 8 ²⁵ / ₃₂
weight	kg / lbs	0.68 / 1.5	0.69 / 1.5	0.69 / 1.5	0.69 / 1.5
noise level	dB (A)	67	67	67	67
air hose dia.	mm / in.	6.5 / 1/4	6.5 / 1/4	6.5 / 1/4	6.5 / 1/4
connector thread for air-hose		1/8"	1/8"	1/8"	1/8"
internal hex. drive DIN 3126		F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")
Suitable tool inserts and connecting components with a drive as per DIN3126		E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")	E6.3 (1/4")
quick change chuck, mounted		yes	yes	yes	yes

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

Standard Equipment:

Air hose ESD-applicable 1.5 m / 4.9 ft. · Set of Torque Adjustment Tools · Set of Clutch Springs

Optional Equipment:

		Motor Size 0	Motor Size 1	Motor Size 2
Connection piece WGESD (Connector thread 1/4" f / 1/4" m)	order no.	378379 A	378379 A	378379 A
Exhaust Hose (1 m / 3.3 ft.)	order no.	806113	402957 A	389653 A
Support Ring	order no.	–	3870323	389775 B
Spring Sleeve cpl., without screw suction	order no.	364670 A	364672 A	364672 A
Spring Sleeve cpl., with screw suction (in connection with finder, sea leaflet: Inserting Tools D 3320 E)	order no.	–	364672 A	364672 C



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

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001
