



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

**Handheld Screwdriver
pneumatic**

MINIMAT Control Screwdrivers

The basic solution for almost all screwdriving tasks
straight handle design – torque from 0.2 – 20 Nm
2 to 177 in.lbs

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

The particular strength of the MINIMAT control screwdriver in straight handle design is that it can carry out screw assemblies with torque ranges from 0.2 Nm to 20 Nm. In these ranges you can not only assemble screws but also adjust them.

The ergonomic MINIMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use.

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 $< \pm 3\%$ 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 ≥ 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 1			
Driver reversible, right shut-off Push To Start	Type part no.		347-218 U 397060 A	347-318 U 397060 B	347-518 U 397060 C	347-618 U 397060 D
screws	up to		M3	M3	M3	M3
torque min.	Nm/in.lbs		0.3/2.7	0.3/2.7	0.2/1.8	0.2/1.8
torque max.	Nm/in.lbs		1/8.85	1.4/12.4	2/17.7	2/17.7
speed, idling	rpm		1900	1300	900	600
air consumption	m³/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		203/7.9	203/7.9	203/7.9	203/7.9
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.		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
internal hex. drive DIN 3126			F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "
quick change chuck, mounted			yes	yes	yes	yes

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

Screwdriver Style			Motor Size 2				
Driver reversible, right shut-off Push To Start	Type part no.		347-228 U 386363 A	347-728 U 386363 E	347-328 U 386363 B	347-428 U 386363 D	347-528 U 386363 C
Driver reversible, right shut-off Lever Start	Type part no.		347-221 U 386364 A	347-721 U 386364 E	347-321 U 386364 B	347-421 U 386364 D	347-521 U 386364 C
screws	up to		M4	M4	M4	M4	M5
torque min.	Nm/in.lbs		0.5/4.4	0.4/3.5	0.4/3.5	0.4/3.5	0.3/2.7
soft pull-up max.	Nm/in.lbs		1.3/11.5	1.8/15.9	2.4/21.2	3.5/31	5/44.3
hard pull-up max.	Nm/in.lbs		1.8/15.9	2.0/17.7	2.8/24.8	4/35.4	5/44.3
speed, idling	rpm		3000	1600	1100	750	500
air consumption	m³/min/cfm		0.3/11	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	33/1 ⁵ / ₁₆
length	mm/in		223/8 ²⁵ / ₃₂	223/8 ²⁵ / ₃₂	223/8 ²⁵ / ₃₂	223/8 ²⁵ / ₃₂	223/8 ²⁵ / ₃₂
weight	kg/lbs		0.69/1.5	0.69/1.5	0.69/1.5	0.69/1.5	0.69/1.5
noise level	dB (A)		67	67	67	67	67
air hose dia.	mm/in.		6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄
internal hex. drive DIN 3126			F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "	F6.3 (1/ ⁴ "
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 and nipple · Torque adjustment tools · Assortment of clutch springs

Optional Equipment:		Motor Size 1	Motor Size 2
Exhaust Hose (1 m / 3.3 ft.)	part no.	402957 D	389653 A
Support Ring for Screwdriver with Push To Start	part no.	3870321	389775 A
Spring Sleeve cpl.	part no.	364672 A	364672 A
Spring Sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting Tools D 3320 E)	part no.	364672 A	364672 C
Spring Sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting Tools D 3320 E)	part no.	364672 B	364672 F
Foam rubber grip	part no.	821702	821703



TECHNICAL DATA

Screwdriver Style			Motor Size 2.5			Motor Size 3			
Driver reversible, right shut-off Push To Start	Type	part no.	345-7258U	345-3258U	345-4258U	346-238U	346-738U	346-338U	346-438U
			351568 A	351568 B	351568 C	396188 B	396188 C	396188 D	396188 E
Driver reversible, right shut-off Lever Start	Type	part no.	345-7251U	345-3251U	345-4251U	–	346-731U	346-331U	346-431U
			384354 A	384354 B	384354 C	–	398684 C	398684 D	398684 E
screws	up to		M5	M6	M6	M5	M6	M6	M8
torque	min.	Nm/in.lbs	1/8.85	1/8.85	1/8.85	2/17.7	2/17.7	2/17.7	2/17.7
soft pull-up	max.	Nm/in.lbs	5/44.3	10/88.5	12/106.2	4.5/39.8	7/62	12/106.2	20/177
hard pull-up	max.	Nm/in.lbs	6/53.1	10/88.5	12/106.2	5.5/48.7	8/70.8	12/106.2	20/177
speed, idling		rpm	1100	640	310	2300	1200	650	320
air consumption		m³/min/cfm	0.35/12	0.35/12	0.35/12	0.4/14	0.4/14	0.4/14	0.4/14
main body dia.		mm/in.	40/1 ⁹ / ₁₆	40/1 ⁹ / ₁₆	40/1 ⁹ / ₁₆	44/1 ³ / ₄	44/1 ³ / ₄	44/1 ³ / ₄	44/1 ³ / ₄
length		mm/in.	245/9 ⁵ / ₈	245/9 ⁵ / ₈	245/9 ⁵ / ₈	299/11 ²⁵ / ₃₂	299/11 ²⁵ / ₃₂	299/11 ²⁵ / ₃₂	299/11 ²⁵ / ₃₂
weight		kg/lbs	0.9/2	0.9/2	0.9/2	1.36/3	1.5/3.3	1.5/3.3	1.5/3.3
noise level		dB (A)	76	76	76	73	73	73	73
air hose dia.		mm/in.	6/1 ¹ / ₄	6/1 ¹ / ₄	6/1 ¹ / ₄	6/1 ¹ / ₄	6/1 ¹ / ₄	6/1 ¹ / ₄	6/1 ¹ / ₄
internal hex. drive DIN 3126			F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")
quick change chuck, mounted			yes	yes	yes	yes	yes	yes	yes

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

Standard Equipment: Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Optional Equipment:			Motor Size 2.5	Motor Size 3
Exhaust Hose (0.6 m / 2 ft.)	part no.		362734	398703 A
Support Ring for Screwdriver with Push To Start	part no.		–	398704 A
Spring Sleeve cpl.	part no.		364680 A	364672 A
Spring Sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting Tools D 3320 E)	part no.		364680 D	364672 C
Spring Sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting Tools D 3320 E)	part no.		364680 D	364672 F
Foam rubber grip	part no.		–	821704
Handle	part no.		360749	328756 A

Suitable tool inserts and connecting components with a drive as per DIN 3126 – E6.3 (1/4"), see also our brochure D 3320 E.



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque:
over 4 Nm for straight design.
Suitable torque supports can be found in our brochure D 3340 E.

Screwdriver with lever-start



DEPRAG

DEPRAG SCHULZ GMBH u. CO.

P.O. Box 1352, D-92203 Amberg, Germany
Kurfürstenring 12-18, D-92224 Amberg
Phone (096 21) 371-0, Fax (096 21) 371-120
www.deprag.com
info@deprag.de

CERTIFIED AS PER DIN EN ISO 9001
