



Screwdriving technology

Automation

Air motors

Air tools

# DEPRAG

**Handheld Screwdriver  
pneumatic**

## MINIMAT 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 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  $\geq 1.67$  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.



# MINIMAT SCREWDRIVER

Screwdriver Style		Motor Size 1 *)						
<b>Driver reversible, right shut-off Push To Start</b>	<b>Type</b>	<b>347-218 U</b>	<b>347-318 U</b>	<b>347-518 U</b>	<b>347-618 U</b>			
	Part no.	397060A	397060B	397060C	397060D			
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	m <sup>3</sup> /min/cfm	0.23/8	0.23/8	0.23/8	0.23/8			
Main body dia.	mm/in	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>			
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 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</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>			
Internal hex. drive DIN ISO 1173		F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")	F6.3 (1/4")			
Quick change chuck, mounted		yes	yes	yes	yes			
Screwdriver Style		Motor Size 2						
<b>Driver reversible, right shut-off Push To Start</b>	<b>Type</b>	<b>347-228 U</b>	<b>347-728 U</b>	<b>347-328 U</b>	<b>347-428 U</b>	<b>347-528 U</b>		
	Part no.	386363A	386363E	386363B	386363D	386363C		
<b>Driver reversible, right shut-off Lever Start</b>	<b>Type</b>	<b>347-221 U</b>	<b>347-721 U</b>	<b>347-321 U</b>	<b>347-421 U</b>	<b>347-521 U</b>		
	Part no.	386364A	386364E	386364B	386364D	386364C		
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	m <sup>3</sup> /min/cfm	0.3/11	0.3/11	0.3/11	0.3/11	0.3/11		
Main body dia.	mm/in	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>		
Length	mm/in	223/8 <sup>25</sup> / <sub>32</sub>	223/8 <sup>25</sup> / <sub>32</sub>	223/8 <sup>25</sup> / <sub>32</sub>	223/8 <sup>25</sup> / <sub>32</sub>	223/8 <sup>25</sup> / <sub>32</sub>		
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 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>		
Internal hex. drive DIN ISO 1173		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		
Screwdriver Style		Motor Size 2.5			Motor Size 3			
<b>Driver reversible, right shut-off Push To Start</b>	<b>Type</b>	<b>345-7258U</b>	<b>345-3258U</b>	<b>345-4258U</b>	<b>346-238U</b>	<b>346-738U</b>	<b>346-338U</b>	<b>346-438U</b>
	Part no.	351568A	351568B	351568C	396188B	396188C	396188D	396188E
<b>Driver reversible, right shut-off Lever Start</b>	<b>Type</b>	<b>345-7251U</b>	<b>345-3251U</b>	<b>345-4251U</b>	<b>-</b>	<b>346-731U</b>	<b>346-331U</b>	<b>346-431U</b>
	Part no.	384354A	384354B	384354C	-	398684C	398684D	398684E
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	m <sup>3</sup> /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 <sup>9</sup> / <sub>16</sub>	40/1 <sup>9</sup> / <sub>16</sub>	40/1 <sup>9</sup> / <sub>16</sub>	44/1 <sup>3</sup> / <sub>4</sub>	44/1 <sup>3</sup> / <sub>4</sub>	44/1 <sup>3</sup> / <sub>4</sub>	44/1 <sup>3</sup> / <sub>4</sub>
Length	mm/in.	245/9 <sup>5</sup> / <sub>8</sub>	245/9 <sup>5</sup> / <sub>8</sub>	245/9 <sup>5</sup> / <sub>8</sub>	299/11 <sup>25</sup> / <sub>32</sub>	299/11 <sup>25</sup> / <sub>32</sub>	299/11 <sup>25</sup> / <sub>32</sub>	299/11 <sup>25</sup> / <sub>32</sub>
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 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>
Internal hex. drive DIN ISO 1173		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)

\*) Built-in vacuum interface (vacuum channel inside handle)

**Included in delivery:** Hose coupling with nozzle and nipple · Torque adjustment tools · Assortment of clutch springs

Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 – 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 D3345E.

## Optional Equipment

Suitable for MINIMAT screwdriver		Motor Size 1	Motor Size 2	Motor Size 2.5	Motor Size 3
Exhaust hose (1 m / 3.3 ft.)	Part no.	402957D	389653A	–	–
Exhaust hose (0.6 m / 2 ft.)	Part no.	–	–	362734	398703A
Support ring for screwdriver with push to start	Part no.	3870321	389775A	–	398704A
Spring sleeve cpl.	Part no.	364672A	364672A	364680A	364672A
Spring sleeve cpl., with vacuum connection (in connection with finder, see leaflet: Inserting tools D 3320 E)	Part no.	364672A	364672C	364680D	364672C
Spring sleeve cpl., with vacuum connection (in connection with socket, see leaflet: Inserting tools D 3320 E)	Part no.	364672B	364672F	364680D	364672F
Foam rubber grip	Part no.	821702	821703	–	821704
Handle	Part no.	–	–	360749	328756A



Screwdriver with lever-start

## MINIMAT SCREWDRIVER in combination with feeder

Screwdriver Style		Motor Size 1				Motor Size 2			
Driver	Type	347Z-218	347Z-318	347Z-518	347Z-618	347Z-228	347Z-328	347Z-428	347Z-528
In combination with feeder	Part no.	397063A	397063B	397063C	397063D	389638A	389638B	389638D	389638C
Screws	up to	M3	M3	M3	M3	M4	M4	M4	M5
Torque	min.	0.3/2.7	0.3/2.7	0.2/1.8	0.2/1.8	0.5/4.4	0.4/3.5	0.4/3.5	0.3/2.7
soft pull-up	max.	1/8.85	1.4/12.4	2/17.7	2/17.7	1.8/15.9	3/26.55	4/35.4	5/44.3
hard pull-up	max.	1/8.85	1.4/12.4	2/17.7	2/17.7	2/17.7	3.2/28.3	4.5/39.8	5/44.3
Speed, idling	rpm	1900	1300	900	600	4000	1550	1000	680
Air consumption	m <sup>3</sup> /min/cfm	0.23/8	0.23/8	0.23/8	0.23/8	0.3/11	0.3/11	0.3/11	0.3/11
Main body dia.	mm/in	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>	28/1 <sup>1</sup> / <sub>8</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>	33/1 <sup>5</sup> / <sub>16</sub>
Length	mm/in	190/7.4	190/7.4	190/7.4	198/7.7	228/9	228/9	228/9	228/9
Weight	kg/lbs	0.4/0.9	0.4/0.9	0.4/0.9	0.43/0.95	0.86/1.9	0.86/1.9	0.86/1.9	0.86/1.9
Noise level	dB (A)	62	62	62	62	62	62	62	62
Air hose dia.	mm/in.	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>	6/1 <sup>4</sup> / <sub>4</sub>
Internal hex. drive DIN ISO 1173		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")	F6.3 (1/4")
Quick change chuck, mounted		yes	yes	yes	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 and nipple · Torque adjustment tools · Assortment of clutch springs



**Note:** The screwdrivers motor size 2.5 and 3 are also available in connection with feeders.

Details on our feeding systems can be found in brochure D3820E.

# DEPRAG

**DEPRAG SCHULZ GMBH u. CO.**

P.O. Box 1352, D-92203 Amberg, Germany

Carl-Schulz-Platz 1, D-92224 Amberg

Phone (+49) 9621 371-0, Fax (+49) 9621 371-120

[www.deprag.com](http://www.deprag.com)

[info@deprag.de](mailto:info@deprag.de)



CERTIFIED AS PER DIN EN ISO 9001

---