



Screwdriving technology

Automation

Air motors

Air tools

# DEPRAG

**Handheld Screwdriver  
pneumatic**

## MINIMAT Control Screwdrivers

The basic solution for almost all screwdriving tasks

pistol grip design - torque from 0.3 to 20 Nm / 2.7 to 177 in.lbs

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

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.

The particular strength of the MINIMAT control screwdriver in pistol grip design is that it can carry out screw assemblies with torque ranges from 0.3 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.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shut-off clutch conform with a  $C_{mk}$  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  $C_{mk}$  value of 1.67 means that there is a failure rate of 0.6 per million screw assemblies.



## TECHNICAL DATA

### MINIMAT Control Screwdrivers - pistol grip design

Screwdriver style		Motor Size 2			
Reversible, trigger-start Lower air-inlet	<b>Type</b> Part no.	<b>347-227 U</b> 394569 A	<b>347-327 U</b> 394569 B	<b>347-427 U</b> 394569 D	<b>347-527 U</b> 394569 C
Reversible, trigger-start Upper air-inlet	<b>Type</b> Part no.	<b>347-227 OU</b> 394570 A	<b>347-327 OU</b> 394570 B	<b>347-427 OU</b> 394570 D	<b>347-527 OU</b> 394570 C
Reversible, push-to-start Lower air-inlet	<b>Type</b> Part no.	<b>347-229 U</b> 394573 A	<b>347-329 U</b> 394573 B	<b>347-429 U</b> 394573 D	<b>347-529 U</b> 394573 C
Reversible, push-to-start Upper air-inlet	<b>Type</b> Part no.	<b>347-229 OU</b> 394574 A	<b>347-329 OU</b> 394574 B	<b>347-429 OU</b> 394574 D	<b>347-529 OU</b> 394574 C
Screws	up to	M3	M4	M4	M5
Torque min.	Nm / in.lbs	0.5 / 5	0.4 / 4	0.4 / 4	0.3 / 3
Torque (soft pull-up) max.	Nm / in.lbs	1.3 / 11	3 / 26	3.5 / 31	5 / 44
Torque (hard pull-up) max.	Nm / in.lbs	1.5 / 13	3.2 / 28	4 / 35	5 / 44
Speed, idling	rpm	3000	1100	750	500
Air consumption	m <sup>3</sup> /min / cfm	0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11
Distance from spindle centre to side	mm / in.	14.5 / <sup>9</sup> / <sub>16</sub>	14.5 / <sup>9</sup> / <sub>16</sub>	14.5 / <sup>9</sup> / <sub>16</sub>	14.5 / <sup>9</sup> / <sub>16</sub>
Length	mm / in.	208 / 8 <sup>3</sup> / <sub>16</sub>	208 / 8 <sup>3</sup> / <sub>16</sub>	208 / 8 <sup>3</sup> / <sub>16</sub>	208 / 8 <sup>3</sup> / <sub>16</sub>
Weight	kg / lbs	0.75 / 1.6	0.75 / 1.6	0.75 / 1.6	0.75 / 1.6
Noise level	dB(A)	69	69	69	69

Screwdriver style		Motor Size 2.5			
Reversible, trigger-start Lower air-inlet	<b>Type</b> Part no.		<b>346-7257 U</b> 412799 A	<b>346-3257 U</b> 412799 B	<b>346-4257 U</b> 412799 C
Reversible, push-to-start Lower air-inlet	<b>Type</b> Part no.		<b>345-7259 U</b> 390854 A	<b>345-3259 U</b> 390854 B	<b>345-4259 U</b> 390854 C
Screws	up to		M5	M6	M6
Torque min.	Nm / in.lbs		1 / 9	1 / 9	1 / 9
Torque (soft pull-up) max.	Nm / in.lbs		5 / 44	10 / 88	12 / 106.2
Torque (hard pull-up) max.	Nm / in.lbs		6 / 53	10 / 88	12 / 106.2
Speed, idling	rpm		1025	525	270
Air consumption	m <sup>3</sup> /min / cfm		0.35 / 12	0.35 / 12	0.35 / 12
Distance from spindle centre to side	mm / in.		20 / <sup>25</sup> / <sub>32</sub>	20 / <sup>25</sup> / <sub>32</sub>	20 / <sup>25</sup> / <sub>32</sub>
Length	mm / in.		240 / 9 <sup>7</sup> / <sub>16</sub>	240 / 9 <sup>7</sup> / <sub>16</sub>	240 / 9 <sup>7</sup> / <sub>16</sub>
Weight	kg / lbs		1.2 / 2.6	1.2 / 2.6	1.2 / 2.6
Noise level	dB(A)		72	72	72

Screwdriver style		Motor Size 3			
Reversible, trigger-start Upper air-inlet, lower air-inlet or rear air-inlet	<b>Type</b> Part no.	<b>346-237 U</b> 400373 B	<b>346-737 U</b> 400373 C	<b>346-337 U</b> 400373 D	<b>346-437 U</b> 400373 E
Reversible, push-to-start Upper air-inlet, lower air-inlet or rear air-inlet	<b>Type</b> Part no.	<b>346-239 U</b> 411447 B	<b>346-739 U</b> 411447 C	<b>346-339 U</b> 411447 D	<b>346-439 U</b> 411447 E
Screws	up to	M5	M6	M6	M8
Torque min.	Nm / in.lbs	2 / 17.7	2 / 17.7	2 / 17.7	2 / 17.7
Torque (soft pull-up) max.	Nm / in.lbs	4.5 / 39.8	7 / 62	12 / 106.2	20 / 177
Torque (hard pull-up) max.	Nm / in.lbs	5.5 / 48.7	8 / 70.8	12 / 106.2	20 / 177
Speed, idling	rpm	2300	1200	650	320
Air consumption	m <sup>3</sup> /min / cfm	0.4 / 14	0.4 / 14	0.4 / 14	0.4 / 14
Distance from spindle centre to side	mm / in.	21 / 0.8	21 / 0.8	21 / 0.8	21 / 0.8
Length	mm / in.	280 / 10.9	280 / 10.9	280 / 10.9	280 / 10.9
Weight	kg / lbs	1.6 / 3.5	1.7 / 3.75	1.7 / 3.75	1.7 / 3.75
Noise level	dB(A)	72	72	72	72

Performance data relate to an air pressure of 6.3 bar (90 PSI), Air hose dia. 6 mm/1/4", Internal hex. drive DIN ISO 1173 – F6.3 (1/4"), integrated quick change chuck

#### Standard equipment:

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

The Screwdrivers motor sizes 2, 2.5 and 3 can also be delivered with an automatic screw feed system. Please contact us for more information!

Suitable tool inserts and connecting components with a drive as per DIN ISO 1173 E6.3 (1/4"), see also in our brochure D3320E – Inserting tools.

## TECHNICAL DATA

### MINIMAT Control Screwdrivers - pistol grip design

Screwdriver style		Motor Size 4		
		344-347 U	344-447 U	344-247 U
Reversible, trigger-start	Type	344-347 U	344-447 U	344-247 U
Upper air-inlet, lower air-inlet or rear air-inlet	Part no.	400320 D	400320 E	400320 F
Reversible, push-to-start	Type	344-349 U	344-449 U	344-249 U
Upper air-inlet, lower air-inlet or rear air-inlet	Part no.	411448 D	411448 E	411448 F
Screws	up to	M5	M6	M8
Torque	min.	Nm / in.lbs	3 / 26	2 / 17.7
Torque (soft pull-up)	max.	Nm / in.lbs	6.5 / 57.5	17 / 150.5
Torque (hard pull-up)	max.	Nm / in.lbs	8.5 / 75.2	17 / 150.5
Speed, idling	rpm	2300	1600	650
Air consumption	m <sup>3</sup> /min / cfm	1 / 35.3	1 / 35.3	1 / 35.3
Distance from spindle centre to side	mm / in.	21 / 0.8	21 / 0.8	21 / 0.8
Length	mm / in.	292 / 11.4	292 / 11.4	311 / 12.1
Weight	kg / lbs	1.7 / 3.7	1.7 / 3.7	1.95 / 4.3
Noise level	dB(A)	81	81	81

Performance data relate to an air pressure of 6.3 bar (90 PSI), Air hose dia. 10 mm/1/4", Internal hex. drive DIN ISO 1173 – F6.3 (1/4"), integrated quick change chuck

#### Standard equipment:

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 in our brochure D3320E – Inserting tools.

## OPTIONAL EQUIPMENT

		Motor Size 2	Motor Size 2.5	Motor Size 3	Motor Size 4
Spring-Sleeve cpl., without screw suction	Part no.	364672 A	364680 A	364672 A	364672 A
Spring-Sleeve cpl., with screw suction (in connection with finder, see leaflet: Inserting Tools D 3320 E)	Part no.	364672 C	364680 D	364672 C	364672 C
Exhaust hose (0.75 m / 2.5 ft.) with air hose (2 m / 6.6 ft.)	Part no.	–	330628 A	413417 A	413417 A
Handle	Part no.	–	–	410971	410971



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque: over 10 Nm for pistol grip.  
Suitable torque supports can be found in our brochure D 3340 E.

► The screwdriver is actuated by trigger. If needed, exhaust hoses can be connected to the screwdriver; this will direct exhaust air away from the assembly area. For size 3 pistol-grip drivers, we offer additional side-handles, which are an useful addition for higher torque values.

# DEPRAG

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