



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		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	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		m ³ /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 351568 A	345-3258U 351568 B	345-4258U 351568 C	346-238U 396188 B	346-738U 396188 C	346-338U 396188 D	346-438U 396188 E
Driver reversible, right shut-off Lever Start	Type part no.	345-7251U 384354 A	345-3251U 384354 B	345-4251U 384354 C	– –	346-731U 398684 C	346-331U 398684 D	346-431U 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
	max.	Nm/in.lbs	5/44.3	10/88.5	12/106.2	4.5/39.8	7/62	12/106.2
	max.	Nm/in.lbs	6/53.1	10/88.5	12/106.2	5.5/48.7	8/70.8	12/106.2
speed, idling		rpm	1100	640	310	2300	1200	650
air consumption		m ³ /min/cfm	0.35/12	0.35/12	0.35/12	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
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
weight		kg/lbs	0.9/2	0.9/2	0.9/2	1.36/3	1.5/3.3	1.5/3.3
noise level		dB (A)	76	76	76	73	73	73
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 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")
quick change chuck, mounted			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.

i 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



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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**

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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 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 2			
reversible, trigger-start lower air-inlet	type part no.		347-227 U 394569 A	347-327 U 394569 B	347-427 U 394569 D	347-527 U 394569 C
reversible, trigger-start upper air-inlet	type part no.		347-227 OU 394570 A	347-327 OU 394570 B	347-427 OU 394570 D	347-527 OU 394570 C
reversible, push-to-start lower air-inlet	type part no.		347-229 U 394573 A	347-329 U 394573 B	347-429 U 394573 D	347-529 U 394573 C
reversible, push-to-start upper air-inlet	type part no.		347-229 OU 394574 A	347-329 OU 394574 B	347-429 OU 394574 D	347-529 OU 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 ³ /min / cfm		0.3 / 11	0.3 / 11	0.3 / 11	0.3 / 11
distance from spindle centre to side	mm / in.		14.5 / ⁹ / ₁₆	14.5 / ⁹ / ₁₆	14.5 / ⁹ / ₁₆	14.5 / ⁹ / ₁₆
length	mm / in.		208 / 8 ³ / ₁₆	208 / 8 ³ / ₁₆	208 / 8 ³ / ₁₆	208 / 8 ³ / ₁₆
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	type part no.		346-7257 U 412799 A	346-3257 U 412799 B	346-4257 U 412799 C	
reversible, push-to-start lower air-inlet	type part no.		345-7259 U 390854 A	345-3259 U 390854 B	345-4259 U 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 ³ /min / cfm		0.35 / 12	0.35 / 12	0.35 / 12	
distance from spindle centre to side	mm / in.		20 / ²⁵ / ₃₂	20 / ²⁵ / ₃₂	20 / ²⁵ / ₃₂	
length	mm / in.		240 / 9 ⁷ / ₁₆	240 / 9 ⁷ / ₁₆	240 / 9 ⁷ / ₁₆	
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	type part no.		346-237 U 400373 B	346-737 U 400373 C	346-337 U 400373 D	346-437 U 400373 E
reversible, push-to-start upper air-inlet, lower air-inlet or rear air-inlet	type part no.		346-239 U 411447 B	346-739 U 411447 C	346-339 U 411447 D	346-439 U 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 ³ /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 mm¹/₄", Internal hex. drive DIN 3126 – F6.3 (1/4"), integrated quick change chuck

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

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!

TECHNICAL DATA

Screwdriver style		Motor size 4		
reversible, trigger-start upper air-inlet, lower air-inlet or rear air-inlet	type part no.	344-347 U 400320 D	344-447 U 400320 E	344-247 U 400320 F
reversible, push-to-start upper air-inlet, lower air-inlet or rear air-inlet	type part no.	344-349 U 411448 D	344-449 U 411448 E	344-249 U 411448 F
screws	up to	M5	M6	M8
torque	min.	Nm / in.lbs	3 / 26	3 / 26
torque (soft pull-up)	max.	Nm / in.lbs	6.5 / 57.5	8 / 70.8
torque (hard pull-up)	max.	Nm / in.lbs	8.5 / 75.2	10 / 88.5
speed, idling		rpm	2300	1600
air consumption		m ³ / min / cfm	1 / 35.3	1 / 35.3
distance from spindle centre to side		mm / in.	21 / 0.8	21 / 0.8
length		mm / in.	292 / 11.4	292 / 11.4
weight		kg / lbs	1.7 / 3.7	1.7 / 3.7
noise level		dB(A)	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 3126 – F6.3 (1/4"), integrated quick change chuck

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

STANDARD EQUIPMENT

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

OPTIONAL EQUIPMENT

		Motor size 2	Motor size 2.5	Motor size 3	Motor size 4
Spring-Sleeve cpl., without screw suction Spring-Sleeve cpl., with screw suction (in connection with finder, see leaflet: Inserting Tools D 3320 E)	part no.	364672 A	364680 A	364672 A	364672 A
	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

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.



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.

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