

Handheld Screwdriver pneumatic



MINIMAT 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 particular strength of the MINIMAT 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.

Torque accuracies of < 3% standard deviation and thus Cmk values of ≥ 1.67 with a tolerance of $\pm 15\%$ can be reached * with these handheld screwdrivers. Statistically speaking, the error rate is less than 0.6 per one million screw assemblies.

*) under suitable process conditions



TECHNICAL DATA

MINIMAT Screwdrivers - pistol grip design

Screwdriver style			Motor Size 2			
Reversible, trigger-start Lower air-inlet	Type Part no.	347-227U 394569A	347-327U 394569B	347-427U 394569D	347-527U 394569C	
Reversible, trigger-start Upper air-inlet	Type Part no.	347-227OU 394570A	347-327OU 394570B	347-427OU 394570D	347-527OU 394570C	
Reversible, push-to-start Lower air-inlet	Type Part no.	347-229U 394573A	347-329U 394573B	347-429U 394573D	347-529U 394573C	
Reversible, push-to-start Upper air-inlet	Type Part no.	347-229OU 394574A	347-329OU 394574B	347-429OU 394574D	347-529OU 394574C	
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.		346-7257U 412799A	346-3257U 412799B	346-4257U 412799C	
Reversible, push-to-start Lower air-inlet	Type Part no.		345-7259U 390854A	345-3259U 390854B	345-4259U 390854C	
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.	346-237U 400373B	346-737U 400373C	346-337U 400373D	346-437U 400373E	
Reversible, push-to-start Upper air-inlet, lower air-inlet or rear air-inlet	Type Part no.	346-239U 411447B	346-739U 411447C	346-339U 411447D	346-439U 411447E	
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 mm/1/4", Internal hex. drive DIN ISO 1173 – F6.3 (1/4"), integrated quick change chuck

Included in delivery:

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!

The screwdrivers motor size 2 are also available in explosion-proof design. 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 product catalog D3320E – Inserting tools.

TECHNICAL DATA

MINIMAT Screwdrivers - pistol grip design

Screwdriver style			Motor Size 4		
Reversible, trigger-start	Type	344-347U	344-447U	344-247U	
Upper air-inlet, lower air-inlet or rear air-inlet	Part no.	400320D	400320E	400320F	
Reversible, push-to-start	Type	344-349U	344-449U	344-249U	
Upper air-inlet, lower air-inlet or rear air-inlet	Part no.	411448D	411448E	411448F	
Screws	up to	M5	M6	M8	
Torque min.	Nm / in.lbs	3 / 26	3 / 26	2 / 17.7	
Torque (soft pull-up) max.	Nm / in.lbs	6.5 / 57.5	8 / 70.8	17 / 150.5	
Torque (hard pull-up) max.	Nm / in.lbs	8.5 / 75.2	10 / 88.5	17 / 150.5	
Speed, idling	rpm	2300	1600	650	
Air consumption	m ³ /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

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 in our product catalog 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.	364672A	364680A	364672A	364672A
Spring-Sleeve cpl., with screw suction (in connection with finder, see product catalog: Inserting Tools D3320E)	Part no.	364672C	364680D	364672C	364672C
Exhaust hose (0.75 m / 2.5 ft.) with air hose (2 m / 6.6 ft.)	Part no.	–	330628A	413417A	413417A
Handle	Part no.	–	–	4109711	4109711



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 product catalog D3345E.

► 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.

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