

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.

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 SCREWDRIVER

Screwdriver Style			Motor Size 1 *)					
Driver reversible, right shut-off Push To Start	Type Part no.		347-218U 397060A	347-318U 397060B	347-518U 397060C	347-618U 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	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 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						
Driver reversible, right shut-off Push To Start	Type Part no.	347-228U 386363A	347-728U 386363E	347-328U 386363B	347-428U 386363D	347-528U 386363C		
Driver reversible, right shut-off Lever Start	Type Part no.	347-221U 386364A	347-721U 386364E	347-321U 386364B	347-421U 386364D	347-521U 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	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 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			
Driver reversible, right shut-off Push To Start	Type Part no.	345-7258U 351568A	345-3258U 351568B	345-4258U 351568C	346-238U 396188B	346-738U 396188C	346-338U 396188D	346-438U 396188E
Driver reversible, right shut-off Lever Start	Type Part no.	345-7251U 384354A	345-3251U 384354B	345-4251U 384354C	– –	346-731U 398684C	346-331U 398684D	346-431U 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	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 / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄	6/ ¹ / ₄
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 (1¹/₄"), see also our product catalog 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 product catalog 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.	–	–	398703B	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 catalog: Inserting tools D 3320 E)	Part no.	364672A	364672C	364680D	364672C
Spring sleeve cpl., with vacuum connection (in connection with socket, see catalog: Inserting tools D 3320 E)	Part no.	364672B	364672F	364680D	364672F
Foam rubber grip	Part no.	821702	821703	–	–
Handle	Part no.	–	–	360749	328756A



Screwdriver with lever-start



TECHNICAL DATA – 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.	Nm/in.lbs	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.	Nm/in.lbs	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.	Nm/in.lbs	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		m³/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 1/8	28/1 1/8	28/1 1/8	28/1 1/8	33/1 5/16	33/1 5/16	33/1 5/16	33/1 5/16
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.	6/1/4	6/1/4	6/1/4	6/1/4	6/1/4	6/1/4	6/1/4	6/1/4

Included in delivery:

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

Optional Equipment

Exhaust hose (1 m / 3.3 ft.)	Part no.	402957B	389653A
Support ring for screwdriver in combination with feeder	Part no.	3945982	394598

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

Note: The mouthpiece guide, as well as the other application and screw specific components in the illustration are not included with delivery. They must be ordered separately and assembled by us in the factory.



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 product catalog D3820E.

DEPRAG

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