

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.

Handheld Screwdriver pneumatic



The highly precise shut-off clutch allows torque precision of $\leq 3\%$ 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 15% 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 *)						
Driver reversible, right shut-off Push To Start	Type	347-218U	347-318U	347-518U	347-618U			
	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			
Torque	max.	Nm/in.lbs	1/8.85	1.4/12.4	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 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	347-228U	347-728U	347-328U	347-428U			
	Part no.	386363A	386363E	386363B	386363D			
Driver reversible, right shut-off Lever Start	Type	347-221U	347-721U	347-321U	347-421U			
	Part no.	386364A	386364E	386364B	386364D			
Screws	up to	M4	M4	M4	M5			
Torque	min.	Nm/in.lbs	0.5/4.4	0.4/3.5	0.4/3.5			
soft pull-up	max.	Nm/in.lbs	1.3/11.5	1.8/15.9	2.4/21.2			
hard pull-up	max.	Nm/in.lbs	1.8/15.9	2.0/17.7	2.8/24.8			
Speed, idling	rpm	3000	1600	1100	750			
Air consumption	m ³ /min/cfm	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			
Length	mm/in	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			
Noise level	dB (A)	67	67	67	67			
Air hose dia.	mm/in.	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")			
Quick change chuck, mounted		yes	yes	yes	yes			
Screwdriver Style		Motor Size 2.5			Motor Size 3			
Driver reversible, right shut-off Push To Start	Type	345-7258U	345-3258U	345-4258U	346-238U	346-738U	346-338U	346-438U
	Part no.	351568A	351568B	351568C	396188B	396188C	396188D	396188E
Driver reversible, right shut-off Lever Start	Type	345-7251U	345-3251U	345-4251U	-	346-731U	346-331U	346-431U
	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
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
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
Speed, idling	rpm	1100	640	310	2300	1200	650	320
Air consumption	m ³ /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 (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.	–	–	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 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	–	–
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.	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	

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

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

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 brochure D3820E.

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001
