

DEPRAG

SENSOMAT

SENSOMAT-Screwdrivers

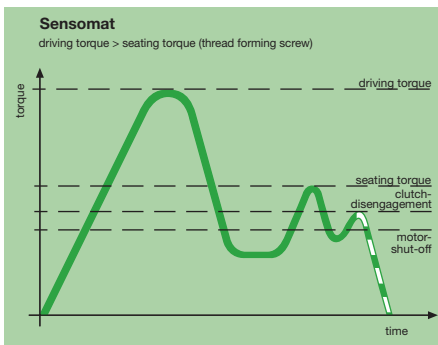
Seating torque from 0.3 - 5 Nm (3 - 44 in.lbs)

- **Thread forming with maximum motor power**
- **Seating torque less than driving torque**
- **Thread forming instead of thread damaging**

If the driving torque is close to the seating torque, or even higher, an automatic driver will shut-off even if the screw is not seated all the way. If the seating torque is increased, the screw will be stripped.

The DEPRAG-SENSOMAT, a further development of the MINIMAT driver series, assembles the screw with full motor power. Shortly before the screw is seated, the driver releases the MINIMAT clutch and the driver shuts-off at the pre-set torque. The screw is therefore fully assembled, without being stripped or otherwise damaged.

Typical assembly cases include thread forming-, thread cutting-, or self-tapping screws.



Technical Data

DEPRAG-SENSOMAT-Screwdrivers straight Handle Design

Screwdriver Style		Motor size 1				Motor size 2			Motor size 3	
Driver reversible, right shut-off, Push-To-Start	Type order no.	347S-218 U 405158 A	347S-318 U 405158 B	347S-518 U 405158 C	347S-618 U 405158 D	347S-328 U 386542 B	347S-428 U 386542 D	347S-528 U 386542 C	346S-238 U 409114 B	346S-738 U 409114 C
Screws	up to	M3	M3	M3	M3	M4	M4	M5	M5	M5
Seating-Torque, minimum	Nm / in.lbs	0.3 / 3	0.4 / 4	0.4 / 4	0.4 / 4	0.4 / 4	0.4 / 4	0.3 / 3	0.5 / 5	0.4 / 4
Seating-Torque, maximum	Nm / in.lbs	1 / 9	1.4 / 12	2 / 18	2 / 18	2.8 / 25	3.5 / 31	5 / 44	4.5 / 40	5 / 44
Driving-Torque, maximum	Nm / in.lbs	1.1 / 10	1.6 / 14	2.2 / 19	2.2 / 19	3.1 / 27	3.9 / 36	5.5 / 49	5 / 44	7 / 62
Speed, idling	rpm	1900	1300	900	600	1100	750	500	2300	1200
Air consumption	m ³ /min / cfm	0.23 / 8	0.23 / 8	0.23 / 8	0.23 / 8	0.3 / 11	0.3 / 11	0.3 / 11	0.4 / 14	0.4 / 14
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	44 / 1 ³ / ₄	44 / 1 ³ / ₄
Length	mm / in.	218 / 8 ¹⁹ / ₃₂	218 / 8 ¹⁹ / ₃₂	218 / 8 ¹⁹ / ₃₂	218 / 8 ¹⁹ / ₃₂	250 / 9 ⁷ / ₈	250 / 9 ⁷ / ₈	250 / 9 ⁷ / ₈	274 / 10 ³ / ₄	290 / 11 ⁷ / ₁₆
Weight	kg / lbs	0.52 / 1.1	0.52 / 1.1	0.52 / 1.1	0.52 / 1.1	0.76 / 1.7	0.76 / 1.7	0.76 / 1.7	1.41 / 3.1	1.48 / 3.2
Noise Level	dB (A)	62	62	62	62	67	67	67	74	74
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	6 / 1/4
Drive hex. female		1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Quick Change Chuck, mounted		yes	yes	yes	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 · Set of Torque Adjustment Tools · Set of Clutch Springs

		Motor size 1	Motor size 2	Motor size 3
Required accessories				
For combination bit and sensor sleeve				
Finder	order no.	339982	339982	339982
Counter nut	order no.	339983	339983	339983
For screw suction (bit and sensor sleeve)				
spring sleeve	order no.	401613 A	401613 B	-
For combination bit holder (magnetic), bit and sensor sleeve				
Finder	order no.	343981	343981	343981
Counter nut	order no.	343982	343982	343982
Sensor-Sleeve and Bits see leaflet: Accessories D 3320 E, page 14 and 15.				

		Motor size 1	Motor size 2	Motor size 3
Optional Equipment				
Exhaust Hose (0.6 m / 2 ft.)				
order no.		328843	-	328842
Exhaust Hose (1 m / 3.3 ft.)				
order no.		-	389653 A	-
Support Ring				
order no.		-	389775 A	-
Adjustment bushing (for torque adjustment without sensor-sleeve)				
order no.		461319	461319	461319
Sensor-Sleeve and Bits see leaflet: Accessories D 3320 E, page 14 and 15.				



Technical Data

DEPRAG-SENSOMAT-Screwdrivers Pistol-Grip Design

Screwdriver Style		Motor size 2			Motor size 3	
Driver reversible, right shut-off Trigger-Start Lower air-inlet	Type order no.	347S-327U 391486 B	347S-427U 391486 D	347S-527U 391486 C	345S-237U 392773 A	345S-737U 392773 B
Driver reversible, right shut-off Trigger-Start Upper air-inlet	Type order no.	347S-327OU 391490 B	347S-427OU 391490 D	347S-527OU 391490 C	- -	- -
Screws	up to	M4	M4	M5	M5	M5
Seating-Torque, minimum	Nm / in.lbs	0.4 / 4	0.4 / 4	0.3 / 3	0.5 / 5	0.4 / 4
Seating-Torque, maximum	Nm / in.lbs	3 / 26	3.5 / 31	5 / 44	4.5 / 40	5 / 44
Driving-Torque, maximum	Nm / in.lbs	3.3 / 29	3.9 / 34	5.5 / 49	5 / 44	7 / 62
Speed, idling	rpm	1100	750	500	2300	1200
Air Consumption	m ³ /min / cfm	0.3 / 11	0.3 / 11	0.3 / 11	0.4 / 14	0.4 / 14
Distance from Spindle Centre to Side	mm / in.	14.5 / 9/16	14.5 / 9/16	14.5 / 9/16	22 / 7/8	22 / 7/8
Length	mm / in.	240 / 9 7/16	240 / 9 7/16	240 / 9 7/16	244 / 9 5/8	260 / 10 1/4
Weight	kg / lbs	0.82 / 1.8	0.82 / 1.8	0.82 / 1.8	1.5 / 3.3	1.6 / 3.5
Noise Level	dB (A)	69	69	69	66	66
Air Hose dia.	mm / in.	6 / 1/4	6 / 1/4	6 / 1/4	6 / 1/4	6 / 1/4
Drive hex. female		1/4"	1/4"	1/4"	1/4"	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 · Set of Torque Adjustment Tools · Set of Clutch Springs

	Motor size 2	Motor size 3
Required accessories		
For combination bit and sensor sleeve		
Finder order no.	339982	339982
Counter nut order no.	339983	339983
For screw suction (bit and sensor sleeve) spring sleeve order no.	401613 B	-
For combination bit holder (magnetic), bit and sensor sleeve		
Finder order no.	343981	343981
Counter nut order no.	343982	343982
Sensor-Sleeve and Bits see leaflet: Accessories D 3320 E, page 14 and 15.		

Optional Equipment		
Exhaust hose (0.75 m / 2.5 ft.) with air hose (2 m / 6.6 ft.) order no.	330628 A	330628 A
Adjustment bushing (for torque adjust- ment without sensor-sleeve) order no.	461319	461319
Sensor-Sleeve and Bits see leaflet: Accessories D 3320 E, page 14 and 15.		

Suitable tool inserts and connecting components with a drive as per DIN 3126 – E 6.3 (1/4"), see also our brochure D 3320 E.

DEPRAG

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