



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

**Handheld Screwdriver
pneumatic**

MINIMAT Control Screwdrivers

The basic solution for almost all screwdriving tasks
angle head design – torque from 0.3 - 65 Nm / 3 to 575 in.lbs

- robust
- highest precision
- ergonomic
- long-life
- low noise level

The particular strength of the MINIMAT control screwdriver in angle head design is that it can carry out screw assemblies with torque ranges from 0.3 Nm to 65 Nm.

In these ranges you can not only assemble screws but also adjust them.

Screwdrivers with angle head design are preferably used for assemblies in tight areas. Because of the angle head design even large torque values can be managed by hand without problems.

The handle is linked with the angle head by a plug connection and can be arrested in different positions.

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.



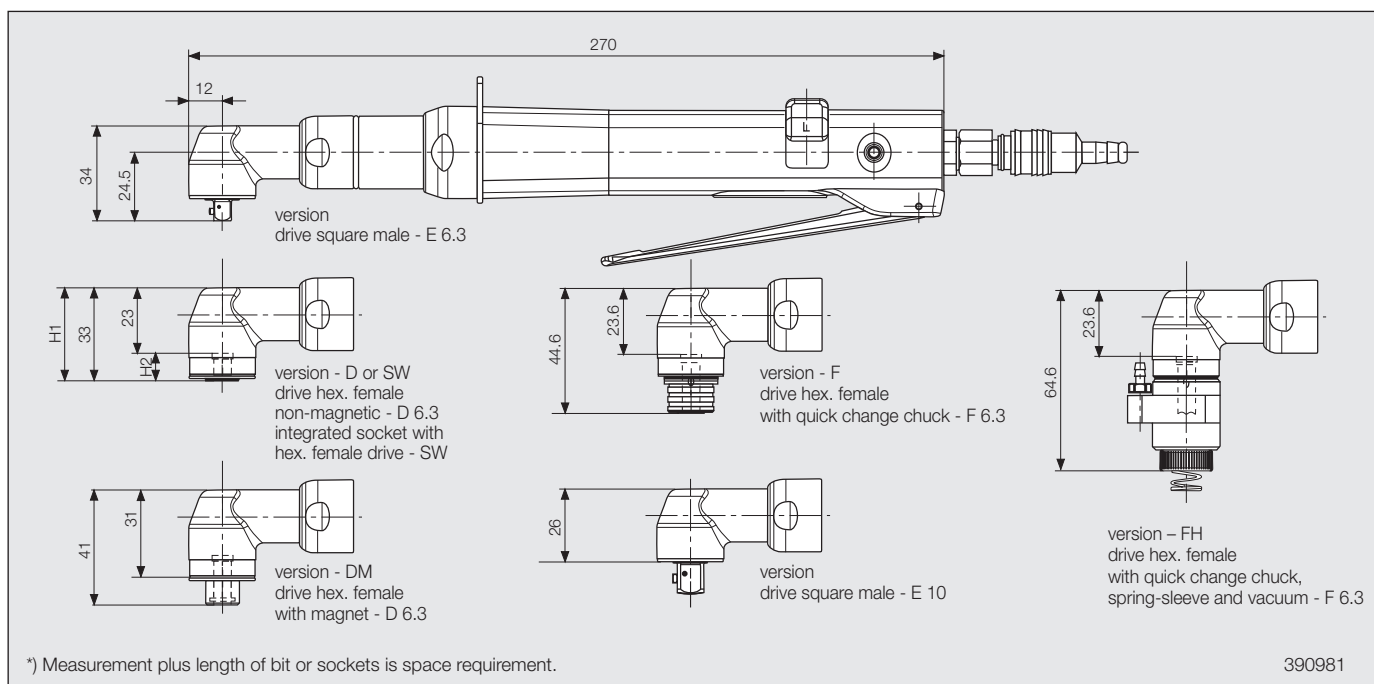
Motor Size 2

Motor Size 2.5

Motor Size 3

Motor Size 4





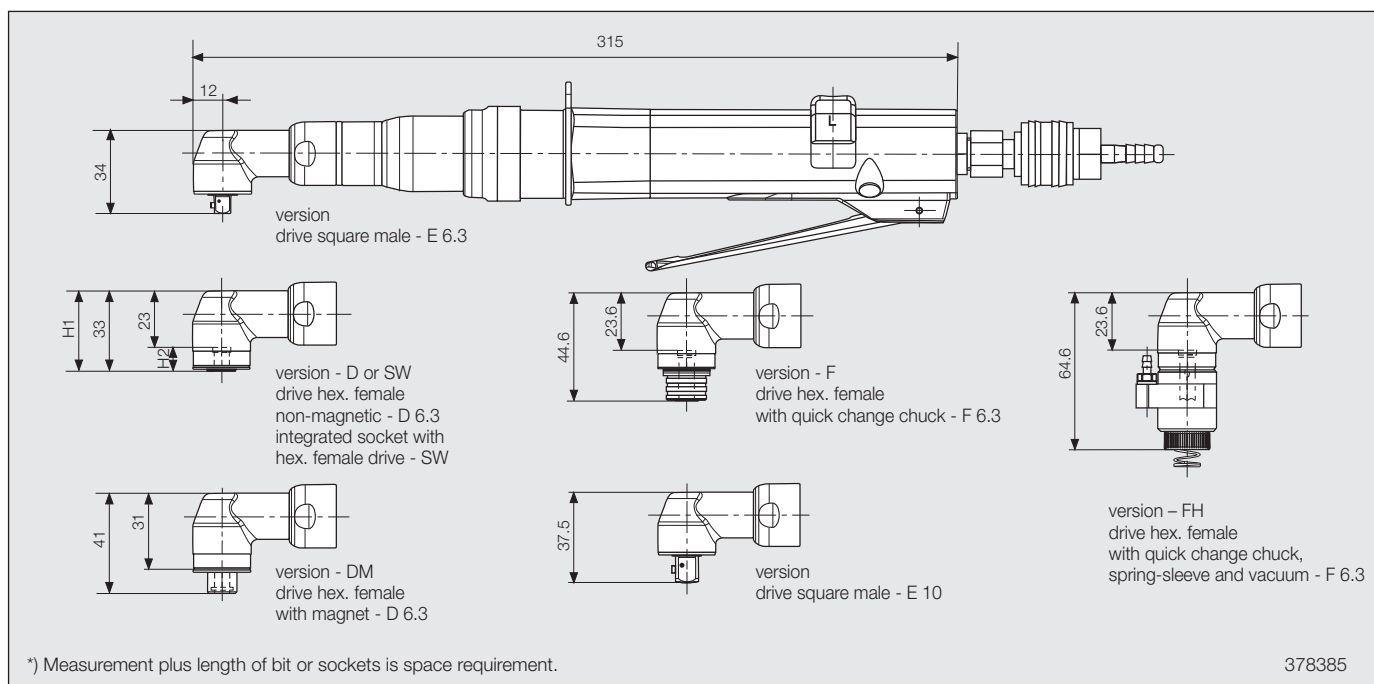
Technical Data

Screwdriver Style			Motor Size 2		
Driver reversible, right shut-off drive square male 1/4"	Type Part no.	377-321 U 386530 B	377-421 U 386530 D	377-521 U 386530 C	
Driver reversible, right shut-off drive square male 3/8"	Type Part no.	377-321 U-E10 390887 B	377-421 U-E10 390887 D	377-521 U-E 10 390887 C	
Driver reversible, right shut-off drive hex. female 1/4" non-magnetic	Type Part no.	377-321 U-D 390883 B	377-421 U-D 390883 D	377-521 U-D 390883 C	
Driver reversible, right shut-off drive hex. female 1/4" with magnet	Type Part no.	377-321 U-DM 390884 B	377-421 U-DM 390884 D	377-521 U-DM 390884 C	
Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck	Type Part no.	377-321 U-F 390885 B	377-421 U-F 390885 D	377-521 U-F 390885 C	
Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck and spring-sleeve	Type Part no.	377-321 U-FH 390886 B	377-421 U-FH 390886 D	377-521 U-FH 390886 C	
Driver reversible, right shut-off integrated socket with hex. female drive	Type Part no.	377-321 U-SW.. 390925 / 1 B 390925 / 2 B 390925 / 3 B 390925 / 4 B	377-421 U-SW.. 390925 / 1 D 390925 / 2 D 390925 / 3 D 390925 / 4 D	377-521 U-SW.. 390925 / 1 C 390925 / 2 C 390925 / 3 C 390925 / 4 C	
Screws	up to	M 4	M 5	M 5	
Torque min.	Nm / in. lbs	0.4 / 4	0.4 / 4	0.3 / 3	
Torque max.	Nm / in. lbs	3.5 / 31	4.5 / 40	6.5 / 57	
Speed, idling	rpm	780	500	350	
Air consumption	m³/min / cfm	0.3 / 11	0.3 / 11	0.3 / 11	
Height (H1) for AF 6 - AF 10 / AF 13	mm in.	29 / 30.5 1 9/64 / 1 13/64	29 / 30.5 1 9/64 / 1 13/64	29 / 30.5 1 9/64 / 1 13/64	
Height (H2) for AF 6 / AF 8 / AF 10 / AF 13	mm in.	3.5 / 4 / 4 / 5.5 9/64 / 5/32 / 5/32 / 7/32	3.5 / 4 / 4 / 5.5 9/64 / 5/32 / 5/32 / 7/32	3.5 / 4 / 4 / 5.5 9/64 / 5/32 / 5/32 / 7/32	
Weight	kg / lbs	0.85 / 1.9	0.85 / 1.9	0.85 / 1.9	
Noise level	dB (A)	67	67	67	
Air hose dia.	mm / in.	6 / 1/4	6 / 1/4	6 / 1/4	
Air inlet pipe thread size		1/8" m	1/8" m	1/8" m	

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

Standard Equipment: Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optionales Zubehör: Exhaust hose (1 m /3.3 ft.) part no. 38 96 53 A suitable for 377-...U-FH types: vacuum connector for screw suction part no. 392636 A



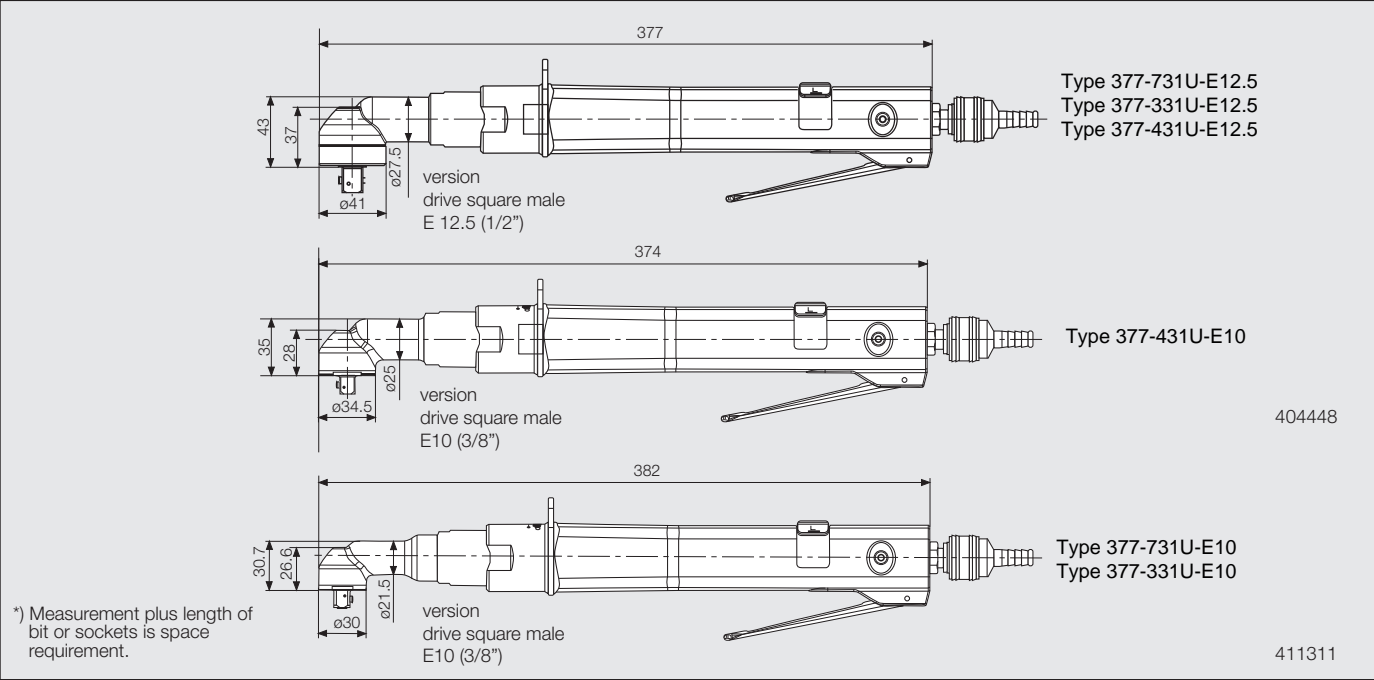
Technical Data

Screwdriver Style		Motor Size 2.5	
Driver reversible, right shut-off drive square male 1/4"	Type Part no.	376-7251 U 378385 A	376-3251 U 378385 B
Driver reversible, right shut-off drive square male 3/8"	Type Part no.	376-7251 U-E 10 382687 A	376-3251 U-E 10 382687 B
Driver reversible, right shut-off drive hex. female 1/4" non-magnetic	Type Part no.	376-7251 U-D 382683 A	376-3251 U-D 382683 B
Driver reversible, right shut-off drive hex. female 1/4" with magnet	Type Part no.	376-7251 U-DM 382684 A	376-3251 U-DM 382684 B
Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck	Type Part no.	376-7251 U-F 382685 A	376-3251 U-F 382685 B
Driver reversible, right shut-off drive hex. female 1/4" with quick change chuck and spring-sleeve	Type Part no.	376-7251 U-FH 382686 A	376-3251 U-FH 382686 B
Driver reversible, right shut-off integrated socket with hex. female drive	Type Part no.	376-7251 U-SW.. 386139 / 1 A 386139 / 2 A 386139 / 3 A 386139 / 4 A	376-3251 U-SW.. 386139 / 1 B 386139 / 2 B 386139 / 3 B 386139 / 4 B
Screws	up to	M 6	M 6
Torque min.	Nm / in. lbs	1.5 / 13	1.5 / 13
Torque max.	Nm / in. lbs	8 / 71	15 / 133
Speed, idling	rpm	810	410
Air consumption	m³/min / cfm	0.35 / 12	0.35 / 12
Height (H1) for AF 6 - AF 10 / AF 13	mm in.	29 / 30.5 1 9/64 / 1 13/64	29 / 30.5 1 9/64 / 1 13/64
Height (H2) for AF 6 / AF 8 / AF 10 / AF 13	mm in.	3.5 / 4 / 4 / 5.5 9/64 / 5/32 / 5/32 / 7/32	3.5 / 4 / 4 / 5.5 9/64 / 5/32 / 5/32 / 7/32
Weight	kg / lbs	1.2 / 2.6	1.2 / 2.6
Noise level	dB (A)	76	76
Air hose dia.	mm / in.	6 / 1/4	6 / 1/4
Air inlet pipe thread size		1/4" m	1/4" m

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

Standard Equipment: Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment: Exhaust hose (0.6 m / 2 ft.), part no. 398703 B



Technical Data

Screwdriver Style		Motor Size 3		
Driver reversible, right shut-off drive square male E 12.5 (1/2")	Type Part no.	377-731 U - E12.5 396037 C	377-331 U - E12.5 396037 D	377-431 U - E12.5 396037 E
Screws	up to	M 6	M 8	M 10
Torque min.	Nm / in. lbs	4 / 35	4 / 35	4 / 35
Torque max.	Nm / in. lbs	11 / 97	20 / 177	35 / 310
Speed, idling	rpm	700	350	180
Air consumption	m³/min / cfm	0.4 / 14	0.4 / 14	0.4 / 14
Length (L)	mm / in.	377 / 14 27/32	377 / 14 27/32	377 / 14 27/32
Weight	kg / lbs	2 / 4.4	2 / 4.4	2 / 4.4
Noise level	dB (A)	75	75	75
Air hose dia.	mm / in.	10 / 3/8	10 / 3/8	10 / 3/8
Air inlet pipe thread size		1/4" f	1/4" f	1/4" f
Driver reversible, right shut-off drive square male E10 (3/8")	Type Part no.	377-731 U - E10 411310 C	377-331 U - E10 411310 D	377-431 U - E10 400611 E
Screws	up to	M 6	M 8	M 10
Torque min.	Nm / in. lbs	4 / 35	4 / 35	4 / 35
Torque max.	Nm / in. lbs	10 / 88.5	19 / 168	33 / 292
Speed, idling	rpm	730	365	190
Air consumption	m³/min / cfm	0.4 / 14	0.4 / 14	0.4 / 14
Length (L)	mm / in.	382 / 15 1/32	382 / 15 1/32	374 / 14 23/32
Weight	kg / lbs	1.9 / 4.2	1.9 / 4.2	1.9 / 4.2
Noise level	dB (A)	75	75	75
Air hose dia.	mm / in.	10 / 3/8	10 / 3/8	10 / 3/8
Air inlet pipe thread size		1/4" f	1/4" f	1/4" f

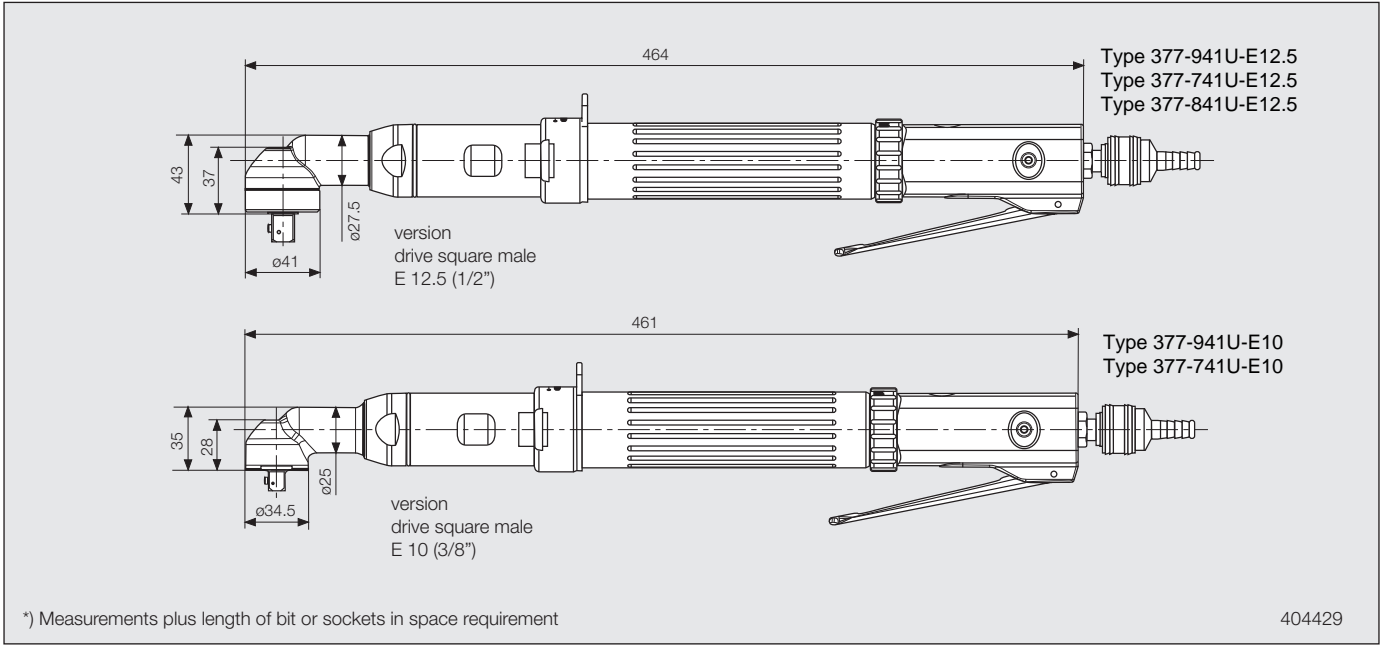
Performance data relate to an air pressure of 6.3 bar (90 PSI)

Standard Equipment: Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment: Exhaust hose (0.6 m / 2 ft.), part no. 398703 A

Screwdriver Style	Suitable tool inserts and connecting components
External square drive DIN 3121 – E 6.3 (1/4")	with a drive as per DIN 3121 – G 6.3 (1/4")
External square drive DIN 3121 – E 10 (3/8")	with a drive as per DIN 3121 – G 10 (3/8")
External square drive DIN 3121 – E 12.5 (1/2")	with a drive as per DIN 3121 – G 12.5 (1/2")
Internal hex. drive DIN 3126 – D 6.3 (1/4")	with a drive as per DIN 3126 – C 6.3 (1/4")
Internal hex. drive DIN 3126 – F 6.3 (1/4")	with a drive as per DIN 3126 – E 6.3 (1/4")
Internal hex. drive DIN 3126 – D 8 (5/16")	with a drive as per DIN 3126 – C 8 (5/16")

Please also find suitable tool inserts in our brochure D 3320 E.



Technical Data

Screwdriver Style		Motor Size 4		
Driver reversible, right shut-off drive square male E12.5 E 12.5 (1/2")	Type Part no.	377-941 U - E12.5 379100 B	377-741 U- E12.5 379100 C	377-841 U - E12.5 379100 D
Screws	up to	M 10	M 10	M 12
Torque min.	Nm / in. lbs	8 / 70.8	8 / 70.8	8 / 70.8
Torque max.	Nm / in. lbs	32 / 283	46 / 407	65 / 575
Speed, idling	rpm	410	270	185
Air consumption	m³/min / cfm	1 / 35.3	1 / 35.3	1 / 35.3
Length (L)	mm / in.	464 / 18	464 / 18	464 / 18
Weight	kg / lbs	2.3 / 5	2.3 / 5	2.3 / 5
Noise level	dB (A)	78	78	78
Air hose dia.	mm / in.	10 / 3/8	10 / 3/8	10 / 3/8
Air inlet pipe thread size		1/4" f	1/4" f	1/4" f
Driver reversible, right shut-off drive square male E10 (3/8")	Typ Part no.	377-941 U - E10 400638 B	377-741 U - E10 400638 C	
Screws	up to	M 10	M 10	
Torque min.	Nm / in. lbs	7 / 62	7 / 62	
Torque max.	Nm / in. lbs	30 / 265.5	44 / 389	
Speed, idling	rpm	430	285	
Air consumption	m³/min / cfm	1 / 35.3	1 / 35.3	
Length (L)	mm / in.	461 / 18 5/32	461 / 18 5/32	
Weight	kg / lbs	2.2 / 4.8	2.2 / 4.8	
Noise level	dB (A)	78	78	
Air hose dia.	mm / in.	10 / 3/8	10 / 3/8	
Air inlet pipe thread size		1/4" f	1/4" f	

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

Standard Equipment: Hose coupling with nozzle and nipple · Torque adjustment tool · Assortment of clutch springs

Optional Equipment: Exhaust hose (0.6 m / 2 ft.), part no. 398703 A



It is necessary to use a torque support (e.g. stand, handgrip) for maximum torque:
over 60 Nm for angle design.
Suitable torque supports can be found in our brochure D 3340 E.

DEPRAG

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CERTIFIED AS PER DIN EN ISO 9001
