



NANOMAT Screwdrivers

The Screwdriver for your micro assemblies

straight design - torque from 8 Nmm - 300 Nmm (1.14 in.oz to 42.6 in.oz)

- top precision shut-off clutch
- for small spaces
- long-life, robust

The particular strength of a NANOMAT screwdriver in straight design is that it can carry out screw assemblies with torque ranges of 8 Nmm to 300 Nmm.

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



NANOMAT Screwdrivers



The ergonomic NANOMAT screwdriver is extremely durable due to its extraordinary processing quality and design for heavy industrial use.

The NANOMAT clutch works with the tried and tested principle of a mechanical disengagement and shut-off clutch.

This extremely accurate shut-off clutch allows torque precision of ≤3% standard deviation, which is maintained for millions of assemblies.

When used under the correct conditions DEPRAG pneumatic screwdrivers with shutoff clutch conform with a Cmk value of ≥1.67 with a tolerance requirement of 15% 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.

The NANOMAT spindles can be easily integrated and are extremely small.

NANOMAT screwdrivers are available in right rotation, left rotation or reversible, with push to start or remote start option.

These tools can be used without lubrication: This should however only be done in specific applications. Using a tool without lubrication will decrease its lifespan.

ADVANTAGES

 Accommodates standard bits type A3 according to DIN ISO 1173

The advantage is the use of standard bits.

- Integrated Quick Change Chuck

 Bit change without the use of tools, quickly and easily.
- Externally adjustable clutch mechanism

The torque can be adjusted quickly and conveniently without the need for special tools.

· High precision shut-off clutch

The high precision torque control is based on the long standing DEPRAG principle of mechanical disengagement and motor shut-off.

Standardised ultra slim design

Only 12 mm diameter for the tightest screw CL distance in your stationary application.

· Standard overall length

All gearing versions and models are available in a single length for ease of integration.

• Proven DEPRAG guide bolt system
Optimised end-load pressure on the screw, via adjustable spring force.

APPLICATIONS



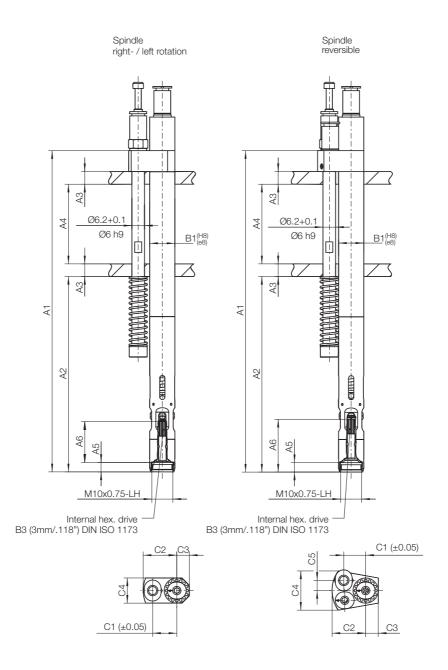
- Medical technology assembly of hearing aids or cardiac pacemakers
- The watchmaking industry
- The optical industry assembly of eyeglasses, lenses, photography equipment or microscopes
- Manufacture of small consumer electronic devices - Mobile phones, calculators, portable game consoles, Laptops and tablet PC's
- Precision engineering gauges

TECHNICAL DATA

Screwdriver Style	Motor Size 00							
Spindle right rotation, right shut-off	Туре	345-3008-31	345-5008-31	345-6008-31	345-7008-31			
Push to Start			204000E	204000F	204000G			
Spindle left rotation, left shut-off	Туре	345-3008-31L	345-5008-31L	345-6008-31L	345-7008-31L			
Push to Start	Part no.	204001C	204001E	204001F	204001G			
Spindle right rotation, right shut-off	Туре	345-3000-31	345-5000-31	345-6000-31	345-7000-31			
Remote Start	Part no.	204004C	204004E	204004F	204004G			
Spindle left rotation, left shut-off	Туре	345-3000-31L	345-5000-31L	345-6000-31L	345-7000-31L			
Remote Start	Part no.	204005C	204005E	204005F	204005G			
Torque min.	Ncm / in.oz	1 / 1.42	0.8 / 1.14	0.8 / 1.14	0.8 / 1.14			
Forque max.	Ncm / in.oz	15 / 21.3	25 / 35.5	30 / 42.6	30 / 42.6			
Speed, idling	rpm	1700	880	660	380			
Air consumption	m³/min / cfm	0.1 / 3.5	0.1 / 3.5	0.1 / 3.5	0.1 / 3.5			
Veight	kg / lbs	0.14 / 0.31	0.14 / 0.31	0.14 / 0.31	0.14 / 0.31			
Push to Start pressure	N / lbs	3 / 0.67	3 / 0.67	3 / 0.67	3 / 0.67			
Pressure at max. screwdriver stroke	N / lbs	20 / 4.48	20 / 4.48	20 / 4.48	20 / 4.48			
Hose I.D. for air supply	mm / in.	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32			
Hose I.D. for function control	mm / in.	2.5 / ³ / ₃₂	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32			
nternal hex. drive DIN ISO 1173		B3 (3 mm/.118")	B3 (3 mm/.118")	B3 (3 mm/.118")	B3 (3 mm/.118"			
Suitable tool inserts and connecting					20 (0 111117 1110			
components with a drive as per DIN ISO 1173		A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118"			
Spindle reversible, right shut-off,	Туре	345-3008-31U	345-5008-31U	345-6008-31U	345-7008-31U			
Push To Start for right rotation	Part no.	204002C	204002E	204002F	204002G			
everse by Remote Start	raitino.	2040020	2040022	2040021	2040020			
Spindle reversible, left shut-off,	Type	345-3008-31UL	345-5008-31UL	345-6008-31UL	345-7008-31UL			
Push To Start for left rotation	Part no.	204003C	204003E	204003F	204003G			
everse by Remote Start	raitino.	2040000	204000L	2040001	2040000			
Spindle reversible, right shut-off,	Туре	345-3000-31U	345-5000-31U	345-6000-31U	345-7000-31U			
Remote Start in drive	Part no.	204006C	204006E	204006F	204006G			
direction and in reverse	i ait iio.	2040000	204000L	2040001	2040000			
Spindle reversible, left shut-off,	Type	345-3000-31UL	345-5000-31UL	345-6000-31UL	345-7000-31UL			
Remote Start in drive	Part no.	204007C	204007E	204007F	204007G			
direction and in reverse	raitiio.	2040070	204007L	2040071	204007 G			
	Name / im an	1 / 1 40	0.0 / 1.14	0.8 / 1.14	0.0/1.14			
Forque min.	Ncm / in.oz	1 / 1.42	0.8 / 1.14		0.8 / 1.14			
Forque max.	Ncm / in.oz	15 / 21.3	25 / 35.5	30 / 42.6	30 / 42.6			
Speed, idling	rpm	1400	680	500	300			
Air consumption	m³/min / cfm	0.1 / 3.5	0.1 / 3.5	0.1 / 3.5	0.1 / 3.5			
Veight	kg / lbs	0.15 / 0.33	0.15 / 0.33	0.15 / 0.33	0.15 / 0.33			
Push to Start pressure	N / Ibs	3 / 0.67	3 / 0.67	3 / 0.67	3 / 0.67			
Pressure at max. screwdriver stroke	N / lbs	20 / 4.48	20 / 4.48	20 / 4.48	20 / 4.48			
Hose I.D. for air supply	mm / in.	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32			
Hose I.D. for function control	mm / in.	2.5 / 3/32	2.5 / 3/32	2.5 / 3/32	2.5 / ³ / ₃₂			
nternal hex. drive DIN ISO 1173		B3 (3 mm/.118")	B3 (3 mm/.118")	B3 (3 mm/.118")	B3 (3 mm/.118"			
Suitable tool inserts and connecting		1	1	1				
components with a drive as per DIN ISO 1173		A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118")	A3 (3 mm/.118")			

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

Included in delivery:	Nipple (mounted) · Torque adjustment tool · Assortment of clutch springs



204835

Motor Size 00															
Туре		Dimensions (mm)													
Spindle right- / left rotation		A1	A2	АЗ	A4	A5	A6	B1	C1	C2	C3	C4	C5		
345-3008-31 345-5008-31	345-3008-31L 345-5008-31L	345-3000-31 345-5000-31	345-3000-31L 345-5000-31L	153.2	93.2	6	38	4.5	25.2	12	11.5	16	6	12	-
345-6008-31 345-7008-31	345-6008-31L 345-7008-31L	345-6000-31 345-7000-31	345-6000-31L 345-7000-31L												
Spindle reversible															
345-3008-31U 345-5008-31U	345-3008-31UL 345-5008-31UL	345-3000-31U 345-5000-31U	345-3000-31UL 345-5000-31UL	153.3	93.3	6	38	4.5	25.2	12	10.4	16	6	18.7	4.9
345-6008-31U 345-7008-31U	345-6008-31UL 345-7008-31UL	345-6000-31U 345-7000-31U	345-6000-31UL 345-7000-31UL												

OPTIONAL ACCESSORIES

Spring sleeve cpl., with vacuum connection		
(Custom screw finder sleeve and bit combinations upon	Part no.	203860B
request. Vacuum screw holding accessories available.)		
Exhaust connection vertical ¹⁾ , turnable	Part no.	386924L

¹⁾ for corresponding exhaust filter / silencer (see leaflet D3340E)

