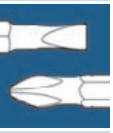
Screwdriving

Overview



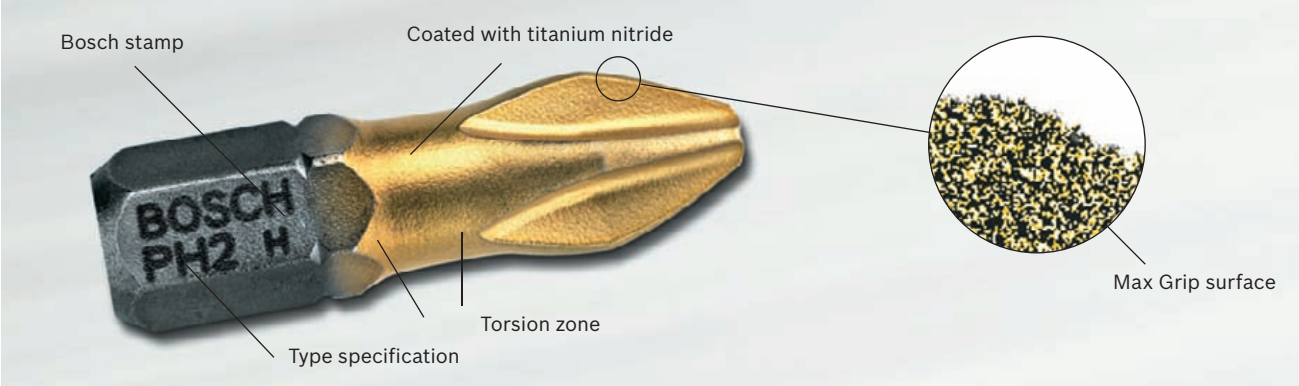
The world's best **screwdriver bits.**

Bosch shows how it's done with a universal, comprehensive screwdriver bit range which has a suitable bit for every application and every screw. Manufactured to the high quality common to all Bosch products, two versions of Bosch bits are available:
1. the innovative Max Grip bits for a particularly good grip.
2. the extra hard bits for universal application.

No more slipping out of the screw head: **The Max Grip bits.**

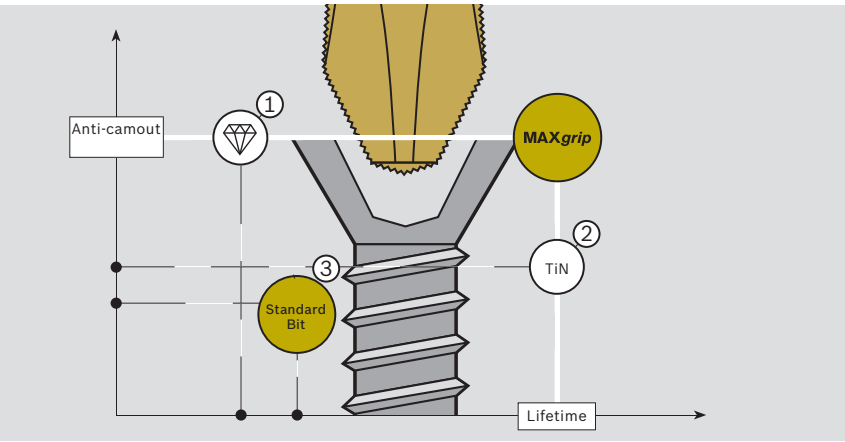
The new Max Grip bits help professionals keep on track. This is thanks to their unique surface. It is microrough, digs into the screw and has a titanium nitride coating.

Advantage 1: an extremely firm hold in any screw.
Advantage 2: a particularly long service life.
Two advantages which were previously incompatible – but have now been combined for the first time with Max Grip bits.



Tests have shown:

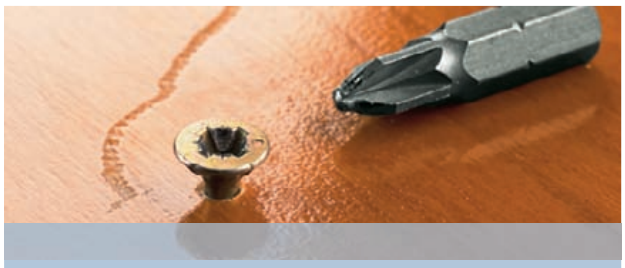
▶ Max Grip bits save time. The microrough surface counters the tendency of the bit to slip out of the screw head (cam-out effect). This results in a firm grip of the bit in the screw and thus faster and more reliable work progress.



By comparison: Anti-camout and lifetime of diamond-particle-tipped bits (1), TiN bits (without roughened surface) (2) and conventional bits (3).

▶ Max Grip bits last longer. The TiN coating is extremely hard and therefore highly wear-resistant. This means that Max Grip bits have a considerably longer service life than uncoated bits.

Problem:



Conventional bits quickly slip out of the screw often destroying the screw head and the valuable material surface.

Solution from Bosch:

Max Grip bits have a better grip in the screw head. This protects the screw and surface against damage.

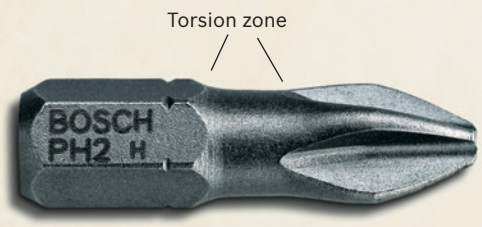
Extra hard for extra power:

The extra hard Bosch Bits.

The extra hard screwdriver bits from Bosch accomplish all tasks. Quickly and easily.

This is thanks to:
1. the extra hard quality.
2. the torsion zone, which handles the torque peaks even better than before.

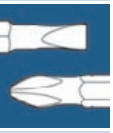
All screwdriving and fastening work completed in no time.

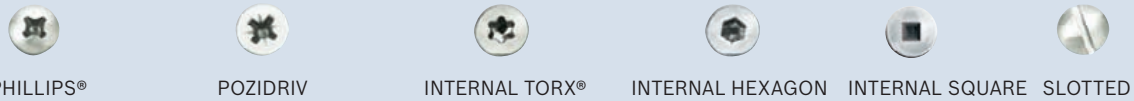


The new torsion zone copes easily with torque peaks.

Equipped
for any application.

With its Max Grip and extra hard bits, Bosch can offer the right bit for every application and for every conventional screw. All screwdriver bits in the universal, comprehensive screwdriver bit range have a 1/4" external hexagon in accordance with DIN 3126 and are tuned to commercially-available sizes or thread diameters of cross-headed, Torx®, internal hexagon, internal square and slotted screws. Manufactured to the high quality common to all Bosch products, Bosch bits are available in two versions:





1. the innovative Max Grip bits for a particularly good grip.

Max Grip

Length (mm): 25 49 | 25 49 | 25 | 25

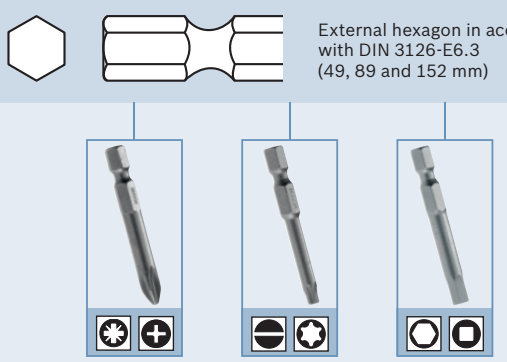
2. the extra-hard bits for universal application.

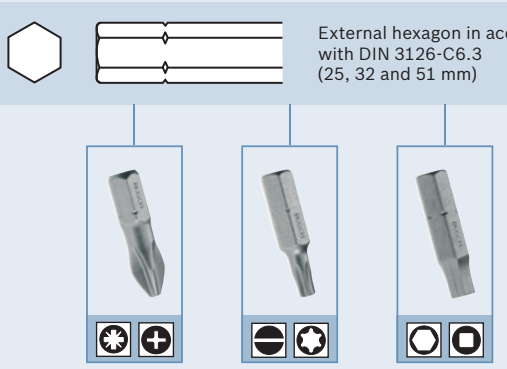
Extra-hard

Length (mm): 25/32 49 51 89 152 | 25/32 49 51 89 152 | 25 49 89 152 | 25 49 | 25 49 89 | 25 49

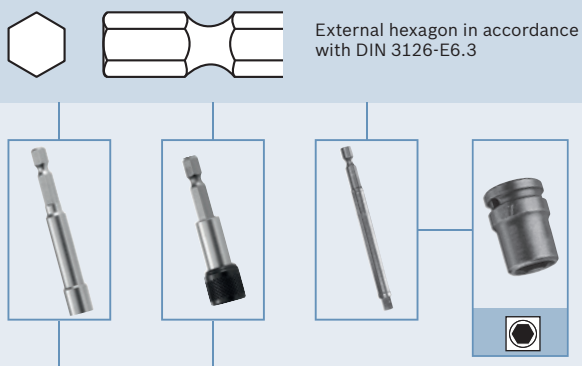
The drive systems
at a glance.

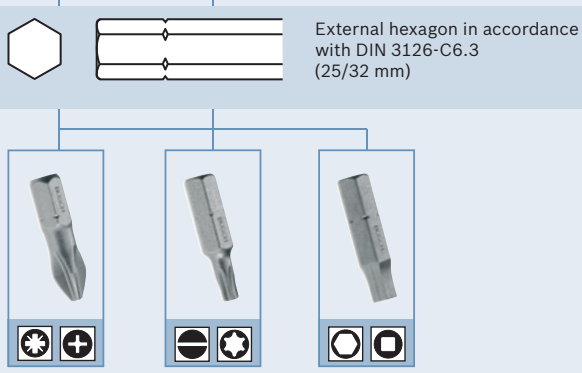
1/4" hex shank, direct



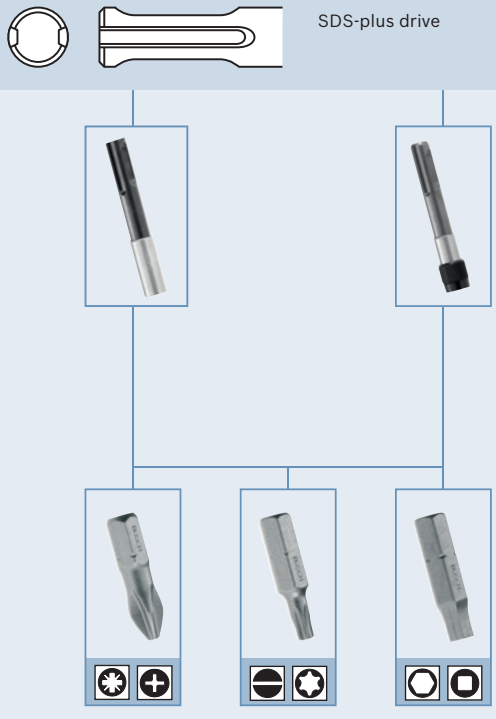


1/4" hex shank, indirect (with universal holder)

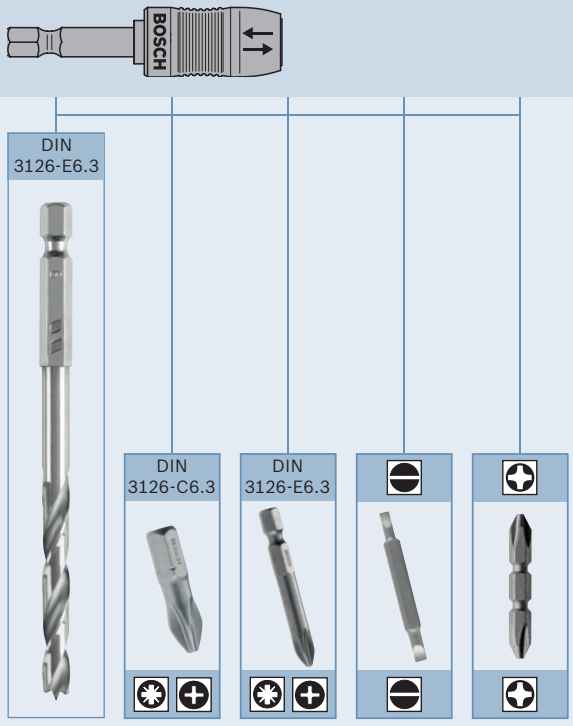




SDS-plus shank, indirect (with universal holder)



Multifit shank



The right bit **for every screw**.

Dimensions Bit mm	Screw thread diameter range mm
Phillips and Pozidrive® screws	
PH0	1.6–2.0
PH1/PZ1	2.2–3.0
PH2/PZ2	3.5–5.0
PH3/PZ3	5.5–7.0
PH4/PZ4	8.0–10.0

Dimensions Bit	Screw thread diameter range mm
Hex screws	
HEX 1.5	1.6–3.0
HEX 2.0	3.0–4.0
HEX 2.5	3.0–5.0
HEX 3.0	4.0–6.0
HEX 4.0	6.0–10.0
HEX 6.0	8.0–14.0
HEX 8.0	10.0–18.0

Dimensions Bit mm Key width	Screw thread diameter range mm
Slotted screws	
S0,5x3.0	2.2
S0,5x4.0	2.2
S0,6x4.5	2.2–2.6
S0,8x5.5	2.9–3.5
S1,0x5.5	3.5–4.5
S1,2x8.0	4.8–5.5
S1,6x8.0	5.5–6.3

Torx® screws	
T 8	2.5–2.9
T 9	2.9
T 10	3.0–3.5
T 15	3.5–3.9
T 20	4.0–4.5
T 25	4.5–5.5
T 27	4.5–6.0
T 30	6.0–7.0
T 40	7.0–8.0

Internal square screws	
R1	3.5
R2	4.0–5.0
R3	5.5–6.3

Torx® is a registered trademark of Camcar Div., Textron Inc.

The hardness level of the screws.

The different strengths of the material used for the manufacture of screws in accordance with DIN 267 gives the recommended torque used to tighten screws (Nm).

Hardness level in accordance with DIN 267

Diameter	3.6	4.6	5.6	4.8	5.8	6.6	6.8	8.8	10.9	12.9	14.9
	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm
M 6	2.7	3.6	4.5	4.8	6.0	5.4	7.2	9.7	13.6	16.2	18.9
M 8	6.6	8.7	11.0	11.6	14.6	13.1	17.5	23.0	33.0	39.0	46.0
M 10	13.0	17.5	22.0	23.0	29.0	26.0	35.0	47.0	65.0	78.0	92.0
M 12	22.6	30.0	37.6	40.0	50.0	45.0	60.0	80.0	113.0	135.0	158.0
M 14	36.0	48.0	60.0	65.0	79.0	72.0	95.0	130	180	215	250
M 16	55.0	73.0	92.0	98.0	122	110	147	196	275	330	386
M 18	75.0	101	126	135	168	151	202	270	380	450	530
M 20	107	143	178	190	238	214	286	385	540	635	750
M 22	145	190	240	255	320	290	385	510	715	855	1010
M 24	185	245	310	325	410	370	490	650	910	1100	1290
M 27	275	365	455	480	605	445	725	960	1345	1615	1900
M 30	370	495	615	650	820	740	990	1300	1830	2200	2600

These values apply at friction number μ = 0.12 and using an apparent yield point of 90%. N.B.: Values have been rounded.