Data sheet screwdriver bits — shanks, drive per screw size, impact bits

A bit fits in two ways: the shank in the machine or holder (ISO 1173 / DIN 3126) and the tip in the screw head. A matching size prevents camming out and bit wear. Impact bits have a torsion zone that absorbs the blows of an impact driver.

Bit shanks (ISO 1173 / DIN 3126)

Shank	Size	Use
C 6.3	1/4" hex, 25 – 30 mm	short bits in a bit holder or quick-change holder
E 6.3	1/4" hex with groove, 50 – 150 mm	power bits directly in the 1/4" drive of the machine
C 8	5/16" hex	heavy bits for large screws, own holder
1/4" Quicklock	1/4" hex with locking groove	quick-change systems Labor, Cobit

Drive per screw size (mm)

Torx	screw Ø	Pozidriv / Phillips	screw Ø	Hex	bolt
TX10	3	PZ1 / PH1	2 – 3	HEX 3	M4
TX15	3,5 – 4	PZ2 / PH2	3,5 – 5	HEX 4	M5
TX20	4 – 4,5	PZ3 / PH3	6 – 8	HEX 5	M6
TX25	5	SQ1	≤ 3,5	HEX 6	M8
TX30	6	SQ2	4 – 5	HEX 8	M10
TX40	8	SQ3	6 – 8	HEX 10	M12

Which bit for what

Version	Application
Standard bit (S2)	drill driver, drill with bit holder; daily screwdriving
Torsion bit	torsion zone against breaking; CNC-milled for exact fit; drill driver and impact driver
Impact bit	impact driver; lasts up to 10 × longer than a standard bit in that machine
Diamond coating / TiN	extra grip in the screw head, less cam-out (drywall, chipboard screws)
Nut setter on bit shank	hex head and roofing screws AF 6 – 13 mm; magnetic holds the screw
Tamper (TX with hole)	security screws with pin in the head

Tips

Point	Advice
Fit	the bit must drop into the head without play; TX20 on a TX25 screw cams out
Worn bit	replace as soon as it slips, otherwise the screw head is damaged
Pressure and torque	square on the screw, firm pressure, set the torque on the machine
Magnetic	a magnetic holder or bit holds steel screws; stainless and brass are not magnetic