

OPTIdrill® B 16H / B 24H / B 28H / B 34H

Rugged bench/Upright drills with V-belt drive

Facts that impress in terms of quality, performance and price

- ▶ Smooth, powerful industrial electric motor
- ▶ Separate emergency stop button
- ▶ Rugged cast column
- ▶ Drilling depth stop
- ▶ Precision machined drilling table with diagonal T-slots and all-around cooling water channel
- ▶ V-belt cover with safety switch
- ▶ V-belt quick tensioning device
- ▶ Solid, generously dimensioned baseplate with T-slots, pronounced ribbing on rear
- ▶ The baseplate can be used for particularly high workpieces by swivelling out the drilling table
- ▶ Guaranteed concentricity better than 0.015 mm measured in the drilling spindle sleeve
- ▶ Drill spindle with precision ball bearings
- ▶ Premium Optimum quick clamping chuck as standard equipment
- ▶ Generously dimensioned, height adjustable protective screen with safety switch

As of B 24H

- ▶ Machine lamp

As of B 24H/400V

- ▶ Right-handed/left-handed rotation

As of B 28H

- ▶ Easy tool changes through integrated push-out tool
- ▶ Spindle sleeve lever made of steel

B 34H

- ▶ Digital depth sensor
- ▶ Digital speed display

Belt drive



- › Smooth action thanks to polished multi-tooth carrier
- › Best possible force transmission thanks to aluminium pulleys in combination with GATES quality toothed belts



Fig.: B 16H

Fig.: B 24H

Fig.: B 28H

Fig.: B 34H

Technical data and accessories



Model	B 16H	B 24H	B 28H	B 34H
Article no. (230 V)	-	3020241	-	-
Article no. (400 V)	3020217	3020243	3020283	3020333
Technical specifications				
Electrical connection	400 V / 3 Ph ~50 Hz	230 V/1 Ph - 400 V/3 Ph	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Motor output	550 W	850 W	850 W	1.5/2.2 kW
Drilling performance				
Drilling performance in steel (S235JR)	Ø 13 mm	Ø 24 mm	Ø 28 mm	Ø 34 mm
Continuous drilling performance in steel (S235JR)	Ø 11 mm	Ø 20 mm	Ø 24 mm	Ø 26 mm
Spindle				
Spindle sleeve stroke	65 mm	85 mm	105 mm	160 mm
Spindle seat	MT 2	MT 2	MT 3	MT 4
Throat	130 mm	165 mm	200 mm	285 mm
Speeds				
Spindle speeds	450 - 3 500 rpm	350 - 4 000 rpm	120 - 4 000 rpm	145 - 4 800 rpm
Number of speeds	5 speeds	7 speeds	16 speeds	2 x 9 speeds
Drilling table				
Drilling table workspace L x W	230 x 245 mm	280 x 300 mm	340 x 360 mm	420 x 400 mm
Diagonal T-slot size	12 mm	14 mm	14 mm	14 mm
Rotating drilling table	360°	360°	360°	360°
Clearance spindle - drilling table	max. 370 mm	max. 515 mm	max. 860 mm	max. 790 mm
Machine base				
Machine base work area L x W	200 x 240 mm	280 x 260 mm	320 x 320 mm	390 x 390 mm
T-slot size / spacing / count	12 mm / 80 mm / 2	14 mm / 120 mm / 2	14 mm / 120 mm / 2	14 mm / 150 mm / 2
Distance spindle - machine base	max. 495 mm	max. 590 mm	max. 1 285 mm	max. 1 275 mm
Dimensions				
Column diameter	Ø 60 mm	Ø 80 mm	Ø 92 mm	Ø 115 mm
Length x width x height	549 x 300 x 848 mm	665 x 434 x 998 mm	698 x 449 x 1 721 mm	918 x 585 x 1 895 mm
Weight	54 kg	92 kg	166 kg	260 kg

Scope of supply

- › Quick clamping drill chuck 1 – 13 mm (B 16H)
- › Quick clamping drill chuck 1 – 16 mm (as of B 24H)
- › Morse cone
- › T-slot nuts

Accessories B 16H / B 24H

Accessories B 16H / B 24H	Article no.
Quick release chuck direct MT 2 1-16 mm	3050571
Quick release chuck direct MT 2 1-13 mm	3050572
Morse taper MT 2/B16	3050659
Twist drill bit HSS / MT 2, 9 parts	3051002
Assortment of clamping tools size 10, 58-parts	3352016
Taper drill punch MSP1	3050636
Collet chuck set MT 2/ ER 25	3352052

Accessories

Accessories	Article no.
Twist drill bits HSS-CO 5%, 25 parts	3201010
Twist drill bits HSS-CO 5%, 51 parts	3201020
Twist drill bits HSS-CO 5%, 41 parts	3201021
Universal coolant unit	3352002
Coolant mist lubricator MMC 1 with magnetic holder	3356663
Coolant hose KMS 2	3356660
› More „Accessories for drills“ from page 64	

Accessories B 28H

Accessories B 28H	Article no.
Quick release chuck direct MT 3	3050573
Reduction sleeve MT 3 - MT 2	3050663
Morse taper MT 3/B16	3050660
Twist drill bit HSS / MT 3, 9 parts	3051003
Assortment of clamping tools size 12, 58-parts	3352017
Thread tapping chuck M3 - M12	3050705
Thread tapping chuck M8 - M20	3050706
Collet chuck set MT 3/ ER 32	3352093

Machine vices

Machine vices	Article no.
BMS 100	3000010
BMS 120	3000012
BSI 100	3000210
BSI 140	3000214
BSI-Q 100	3000230
BSI-Q 140	3000234

› Information on the vices on page 71

Accessories B 34H

Accessories B 34H	Article no.
Quick release chuck direct MT 4	3050574
Morse taper MT 4/B16	3050661
Reduction sleeve MT 4 - MT 3	3050664
Assortment of clamping tools size 12, 58-parts	3352017
Thread tapping chuck M3 - M12	3050709
Thread tapping chuck M8 - M20	3050710
Collet chuck set MT 4/ ER 32	3352094