

OPTIdrill® DH 24BV / DH 28BV / DH 40BV

Bench and Upright drills with continuous, mechanical belt gear from **BERGES**. Quick speed adjustment using a lever



Facts that impress in terms of quality, performance and price

- ▶ Smooth action powerful electric motor
- ▶ Two speeds
- ▶ Right-handed/left-handed rotation
- ▶ V-belt cover with safety switch
- ▶ Digital speed display integrated in housing
- ▶ Guaranteed concentricity guaranteed to be less than 0.015 mm measured in the drilling spindle sleeve
- ▶ Height adjustable chuck guard with micro switch for greatest possible protection of the user
- ▶ Machine lamp integrated into drilling head
- ▶ Drilling spindle with precision ball bearings
- ▶ Premium quick clamping chuck as standard
- ▶ Precision, generously dimensioned drilling table, solid workmanship, with diagonal T-slots, rotating through 360°, recirculating coolant duct

- ▶ Thick walled cast column for high force absorption and stability
- ▶ Solid baseplate with pronounced ribbing on rear
- ▶ The baseplate can be used as a workspace for particularly high workpieces by swivelling out the drilling table

As of DH 28BV

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

DH 40BV

- ▶ Digital depth sensor
- ▶ Reduction gearbox enables far higher torque

Continuous mechanical gearbox



- › Extremely reliable through manual speed control
- › Powerful, smooth action
- › Durable wide groove v-belt
- › Speed change also possible while machine is running
- › Permanent optimal motor efficiency
- › DH 40BV-with reduction gearbox

Speed setting



- › Quicker speed adjustment using a lever

Therm drill



- › Information see page 72



Figure: DH 24BV

Figure: DH 40BV



Technical data and accessories

Model	DH 24BV	DH 28BV	DH 40BV
Article no.	3020420	3020430	3020450
Technical specifications			
Electrical connection	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz	400 V / 3 Ph ~50 Hz
Motor output	0.85 / 1.5 kW	0.85 / 1.5 kW	1.5 / 2.2 kW
Drilling performance			
Drilling performance in steel (S235JR)	Ø 24 mm	Ø 28 mm	Ø 40 mm
Continuous drilling performance in steel (S235JR)	Ø 20 mm	Ø 24 mm	Ø 32 mm
Spindle			
Spindle sleeve stroke	85 mm	105 mm	160 mm
Spindle seat	MT 2	MT 3	MT 4
Throat	165 mm	200 mm	285 mm
Speeds			
Spindle speeds	300 - 4 000 rpm	300 - 4 000 rpm	150 - 2 000 rpm
Number of speeds	2 speed motor, manual	2 speed motor, manual	2 speed motor, manual
Drilling table			
Drilling table workspace L x W	280 x 300 mm	340 x 360 mm	420 x 400 mm
T-slot size	14 mm, diagonal	14 mm, diagonal	14 mm, diagonal
Clearance spindle - drilling table	max. 515 mm	max. 860 mm	max. 790 mm
Machine base			
Machine base work area L x W	280 x 260 mm	320 x 320 mm	390 x 400 mm
T-slot size / spacing / count	14 mm / 120 mm / 2	14 mm / 120 mm / 2	14 mm / 150 mm / 2
Rotating drilling table	360°	360°	360°
Distance spindle - machine base	max. 681 mm	max. 1 285 mm	max. 1 275 mm
Dimensions			
Column diameter	Ø 80 mm	Ø 92 mm	Ø 115 mm
Length x width x height	675 x 555 x 1 025 mm	755 x 550 x 1 745 mm	920 x 680 x 1 895 mm
Weight	115 kg	152 kg	275 kg

Scope of supply

- › Quick-action drill chuck 1 - 16 mm
- › Morse taper MK
- › T-slot nuts

Accessories	Article no.
Assortment of clamping tools size 12	3352017
Hold-down device 14 mm/M12	3352031
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
Quick clamping drill chuck 1 - 8 mm; B16	3050608
Quick clamping drill chuck 1 - 10 mm; B16	3050610
Quick clamping drill chuck 1 - 13 mm; B16	3050623
Quick clamping drill chuck 1 - 16 mm; B16	3050626
Thread tapping chuck M3 - M12	3050705
Thread tapping chuck M8 - M20	3050706
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

Machine vices	Article no.
BMS 120	3000012
BSI 100	3000210
BSI-Q 100	3000230

› Information on the vices on page 71

DH 24BV accessories	Article no.
Direct quick release chuck 1 - 16 mm	3050571
Direct quick release chuck 1 - 13 mm	3050572
Collet chuck set MT 2/ ER 25	3352052
Morse taper MT 2/B16	3050659
Twist drill bit HSS / MT 2, 9 parts	3051002

DH 28BV ACCESSORIES	Article no.
Direct quick release chuck 1 - 16 mm	3050573
Collet chuck set MT 3/ ER 32	3352093
Reduction sleeve MT 3 - MT 2	3050663
Reduction sleeve MT 3 - MT 2	3350313
Morse taper MT 3/B16	3050660
Twist drill bit HSS / MT 3, 9 parts	3051003

DH 40BV accessories	Article no.
Direct quick release chuck 1 - 16 mm	3050574
Collet chuck set MT 4/ ER 32	3352094
Reduction sleeve MT 4 - MT 3	3050664
Reduction sleeve MT 4 - MT 3	3350314
Morse taper MT 4/B16	3050661