

# OPTi drill<sup>®</sup> B 24HV / B 28HV / B 34HV

### **Rugged bench and Upright drills with powerful OPTIMUM Brushless drive,** electronic speed control

#### Facts that impress in terms of quality, performance and price

- Powerful brushless drive with particularly smooth action and high performance with almost constant torque over the entire speed range
- Best possible force transmission thanks to to aluminium pulleys in combination with GATES quality toothed belts
- Smooth action thanks to polished multi-tooth carrier
- Guaranteed concentricity guaranteed to be less than 0.015 mm measured in the drilling spindle sleeve
- Separate emergency stop button
- Digital speed display integrated in housing
- Premium OPTIMUM quick clamping chuck as standard
- Generously dimensioned, height adjustable protective screen with safety switch for greatest possible user protection
- Single-piece, pressure cast aluminium spindle sleeve lever (B 24HV with Softgrip handles)
- Drilling depth stop
- ▶ V-belt cover with safety switch
- V-belt tensioning device



#### Operating modes "auto"

- Motor runs automatically after lever movement
- > Stops again in original position
- Start and stop pushbuttons do not need to be actuated for repetitive drilling tasks

#### Operating modes "Thread tapping"

- The motor is activated by moving the handle down
- The direction of rotation is changed by the limit switch on the adjustable drilling depth stop

#### Powerful brushless drive



- > Particularly smooth action
- > Extremely powerful
- > Virtually constant torque
- over the entire speed range

- ▶ Right-handed/left-handed rotation
- Machine lamp integrated in drilling head
- Precision workmanship; rugged drilling table with diagonal T-slots, 360° rotation and all-around cooling water channel
- Thick walled cast column for high force absorption and stability
- Solid baseplate, large dimensions und pronounced ribbing on rear

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#### As of B 28HV

- Spindle sleeve lever made of steel
- Coolant system
- ► Chip filter in line with Machinery Directive
- Easy tool changes through integrated push-out tool
- B 34HV
- ▶ Spindle sleeve stroke 160 mm
- ▶ Thread tapping function
- ▶ Digital depth sensor





# Технически характеристики

## Technical data and accessories



Article no.3020Technical specifications230 V / 1 PElectrical connection230 V / 1 PMotor output1.5 ICoolant pump motor-Drilling performance0Drilling performance in steelØ 24(S235JR)Ø 20Thread tapping steel (S235JR)-SpindleØSpindle sleeve stroke85 mSpindle seatMTThroat165 mSpindle speeds100 - 5 9Number of speeds100 - 5 9Drilling table0Drilling table workspace L x W280 x 30T-slot size14 mm, dRotating drilling table360	rh ~50 Hz 230 V / 1 Ph ~50 Hz kW 1.5 kW 40 W mm Ø 28 mm	z 230 V / 1 Ph ~50 Hz 2.2 kW 40 W
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Number of speeds Electronic sp   Drilling table Drilling table workspace L x W   280 x 30   T-slot size 14 mm, d	50 rpm 35 - 5 600 rpm	40 - 5 000 rpm
Drilling table workspace L x W280 x 30T-slot size14 mm, d		9 speeds trol Electronic speed control
T-slot size 14 mm, d		
	00 mm 340 x 360 mm	420 x 400 mm
Rotating drilling table 360	iagonal 14 mm, diagonal	14 mm, diagonal
	0° 360°	360°
Clearance spindle - drilling table max. 51	.5 mm max. 860 mm	max. 790 mm
Machine base		
Machine base work area L x W 280 x 26	50 mm 320 x 320 mm	390 x 390 mm
T-slot size / spacing / count 14 mm / 12	20 mm / 2 14 mm / 120 mm / 1	2 14 mm / 150 mm / 2
Rotating drilling table 36	0° 360°	360°
Distance spindle - machine base max. 59	0 mm max. 1 285 mm	max. 1 275 mm
Dimensions	00	
Column diameter Ø 80	mm Ø 92 mm	Ø 115 mm
Length x width x height 665 x 434 x	x 998 mm 701 x 474 x 1 755 m	m 918 x 595 x 1 930 mm
Weight 96 l	<g 166="" kg<="" td=""><td>275 kg</td></g>	275 kg
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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
> More "Accessories for drills" from page 64	

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 vises on pag	e 71

Accessories B 24HV	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
Thread tapping chuck MT 2	3050702
Universal coolant unit	3352002
Accessories B 28HV	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
Thread tapping chuck MT 3	3050705
Accessories B 34HV	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
Thread tapping chuck MT 4	3050709

\* Important information on the transport packaging flat rate and surcharge and "Operation of machines with frequency converters" on page 253 \*\*The machines comply with DIN EN 55011: class C2.