

## Bench and upright drills Solid and cost-efficient

### Convincing arguments: quality, efficiency and price

- Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve
- Drilling spindle with precision ball bearings
- Precision machined work table with transversally running T-slots, rotatable from  $\pm 45^\circ$  to  $360^\circ$
- High-grade quick-action drill chuck supplied as standard
- Smoother running due to aluminum pulleys with ground multitooth dog
- Higher power transmission due to the quality toothed V-belt
- Long, ergonomically designed star grip with soft grip handles for safe working
- Powerful, smooth running aluminum electric motors (from B 14 on)
- Solid, largely dimensioned base plates with T-slots, heavily ribbed at the backside
- T-slots to fix a vice supplied as standard (from B 14 on)
- 400 volt models with additional right-/left-handed rotation camshaft controller
- Drill depth stop
- A millionfold proven quality

### Extent of supply

#### quantum B 13:

- Gear rim drill chuck (1 - 13 mm) B 16
- Drill chuck protection

#### quantum B 14:

- Quick-action drill chuck (0 - 13 mm) B 16
- Drill chuck protection
- 2 T-slot nuts

#### quantum B 16/B 20:

- Quick-action drill chuck (0 - 16 mm) B 16
- Morse taper MT 2 - B 16
- Drill chuck protection
- 2 T-slot nuts



Fig.: B 13



Fig.: B 14



Fig.: B 16



Fig.: B 20

| Model         | quantum B 13 | quantum B 14  | quantum B 16  | quantum B 20     |
|---------------|--------------|---------------|---------------|------------------|
| Item No       | 300 8131     | 300 8141      | 300 8161      | 300 8201 (230 V) |
| € (VAT excl.) | <b>89.00</b> | <b>135.00</b> | <b>209.00</b> | <b>279.00</b>    |
| Item No       | -            | -             | -             | 300 8203 (400 V) |
| € (VAT excl.) | -            | -             | -             | <b>309.00</b>    |

### Features of performance

#### Electrical connection

Motor 300 W 230 V ~50 Hz 350 W 230 V ~50 Hz 450 W 230 V ~50 Hz 0,55 kW ~50 Hz

#### Drilling capacity

Drilling capacity in steel  $\varnothing$  13 mm  $\varnothing$  14 mm  $\varnothing$  16 mm  $\varnothing$  20 mm  
 Working range 104 mm 104 mm 125 mm 170 mm  
 Sleeve travel 50 mm 50 mm 65 mm 80 mm

#### Speeds

Spindle speed 520 - 2,620 rpm 520 - 2,620 rpm 660 - 2,500 rpm 210 - 2,220 rpm  
 Number of steps 5 steps 5 steps 5 steps 12 steps

#### Spindle holding fixture

Spindle holding fixture fixed/B16 fixed/B16 MT 2 MT 2

#### Drilling table

Table size Length x Width 160 x 160 mm 160 x 160 mm 200 x 200 mm 275 x 275 mm  
 T-slot size - - - 14 mm  
 Slot width 14 mm 14 mm 14 mm -  
 Drilling table inclinable  $\pm 45^\circ$   $\pm 45^\circ$   $\pm 45^\circ$   $\pm 45^\circ$   
 Drilling table rotatable  $360^\circ$   $360^\circ$   $360^\circ$   $360^\circ$   
 Distance spindle - table (max.) 240 mm 330 mm 390 mm 450 mm  
 Distance spindle - stand (max.) 325 mm 440 mm 525 mm 635 mm

#### Dimensions

Upright diameter 46 mm 46 mm 60 mm 70 mm  
 Length x Width x Height 420 x 220 x 580 mm 420 x 230 x 700 mm 510 x 270 x 820 mm 700 x 300 x 990 mm  
 Net weight 21 kg 24 kg 38 kg 56 kg

### Arguments for the VARICON drive

- The drive system VARICON has been adjusted to the application "Drilling in hard metal alloys"
- Due to the fact that the type of drive is related to the application in the lower speed range, a very large torque is being achieved, so that a blocking of the drive is very difficult
- Due to the integrated external ventilation you can also continuously work with full torque in the lower speed range
- The integrated external ventilation dissipates the power loss immediately, so that no heat accumulation is built up nor a damage of the drive system is being caused
- Complete radio shielding in accordance with the EMV guidelines
- No high-frequency disturbing ambient noises of the frequency converter are being observed
- An integrated transmitter system allows a rapid and dynamic speed control in real time

### Smooth running

- Due to aluminum pulleys with ground multitooth dog

### Speed range

- Very wide from 15 up to 3,500 rpm for quantum B 20 VARIO
- From 10 up to 3,500 rpm for quantum B 32 VARIO

### Safety switch

- Easy-to-operate
- According to IP 54 with low-voltage release
- Emergency-stop button
- Right-/left-handed rotation camshaft controller

### Drilling spindle

- Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve
- With precision ball bearings
- High-grade quick-action drill chuck supplied as standard
- Largely dimensioned, height-adjustable screening grid with safety switch

### Work bench

- Precisely machined
- Transversally running T-slots
- Inclined by  $\pm 45^\circ$
- Rotatable by  $360^\circ$

### Base plate

- Solid and largely dimensioned
- T-slots
- Heavily ribbed at the backside

### Quality V-belt

- Toothed; therefore anti-skid and considerably better power transmission than with common V-belts

### Drill depth stop

### Star grip

- Long, ergonomically designed star grip with soft grip handles for safe working

### Table height adjustment

- Via toothed rack

### Drilling table support

- Solid and thick-walled

### Steel upright

- Thick-walled
- 5-fold screwed for high smooth running and stability

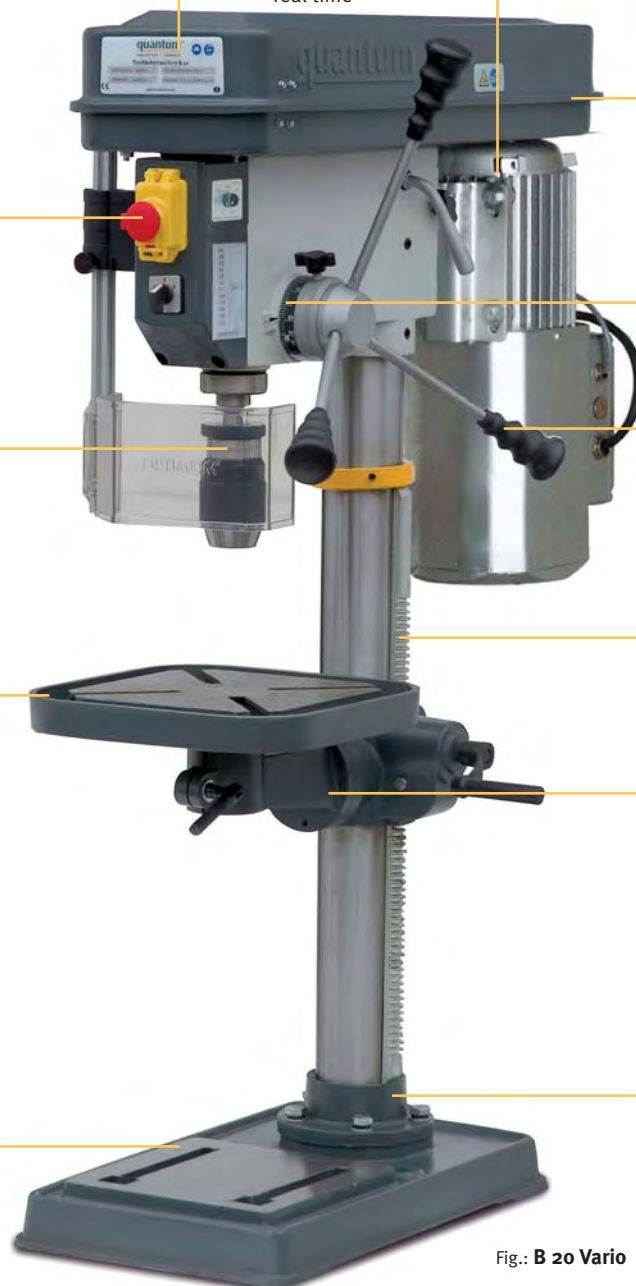


Fig.: B 20 Vario