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 ± 45° to 360°
- 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

Features of performance

<table>
<thead>
<tr>
<th>Model</th>
<th>quantum B 13</th>
<th>quantum B 14</th>
<th>quantum B 16</th>
<th>quantum B 20</th>
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<tbody>
<tr>
<td>Item No</td>
<td>300 8131</td>
<td>300 8141</td>
<td>300 8161</td>
<td>300 8201</td>
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<td>€ (VAT excl.)</td>
<td>89.00</td>
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Electrical connection
- Motor: 300 W (230 V - 50 Hz)
- Drilling capacity: Ø 13 mm, Ø 14 mm, Ø 16 mm, Ø 20 mm
- Working range: 104 mm, 104 mm, 125 mm, 170 mm
- Sleeve travel: 50 mm, 50 mm, 65 mm, 80 mm
- 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: 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
  - Slot width: 14 mm, 14 mm, 14 mm, 14 mm
  - Drilling table inclinable: ± 45°, ± 45°, ± 45°, ± 45°
  - Drilling table rotatable: 360°, 360°, 360°, 360°
  - 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
**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 ± 45°
- Rotatable by 360°

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

**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

**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