

Small drilling/milling machine with electronic, continuously controllable drive for model makers

Facts that impress in terms of quality, performance and price

- ▶ Versatile deployment options
- ▶ All guides ground and sight scrapped (oil pockets for lubrication)
- ▶ Column can be displaced laterally to extend the range of applications
- ▶ Tool holder MT 2
- ▶ Safety electrical system 24-volt version
- ▶ EMC filter class B (use in private households)
- ▶ All travel can be read off on scales
- ▶ Cost-efficient, lasting value

Control unit

- Simple
- Clearly-arranged
- On/off switch
- Potentiometer
- Emergency stop button

Speed setting

- Continuously adjustable from 100 to 3,000 rpm

Excellent concentricity

- Thanks to tapered roller bearings
- Better than 0,015 mm measured at the sleeve spindle

Protective screen

- Height-adjustable
- Generously dimensioned
- Microswitch

Cross table

- Solid
- T-slots
- Coolant channel
- Adjustable limit stops

Feed spindle

- Feed spindle play adjustable and re-adjustable

Accessories

Digital position display DRO 5
Art no. 3383975

Factory assembly DRO 5
Art no. 9000420

Magnetic tape per meter
Art no. 3383980

„DRO 5“ auf Seite 218

Gear ratio

- Two-speed

Drilling/milling head

- Tilts $\pm 90^\circ$ both sides
- Drilling and milling work at angled positions as required

Guides

- Neat milling surface thanks to individually clamping guides

Column

- Sturdy
- Dovetail guide
- Adjustable on all 3 axes via V-ledges

Hand wheels

- Precise feed thanks to positioning capable scale rings on all hand-wheels

Longitudinal scale

- Inset into cross table

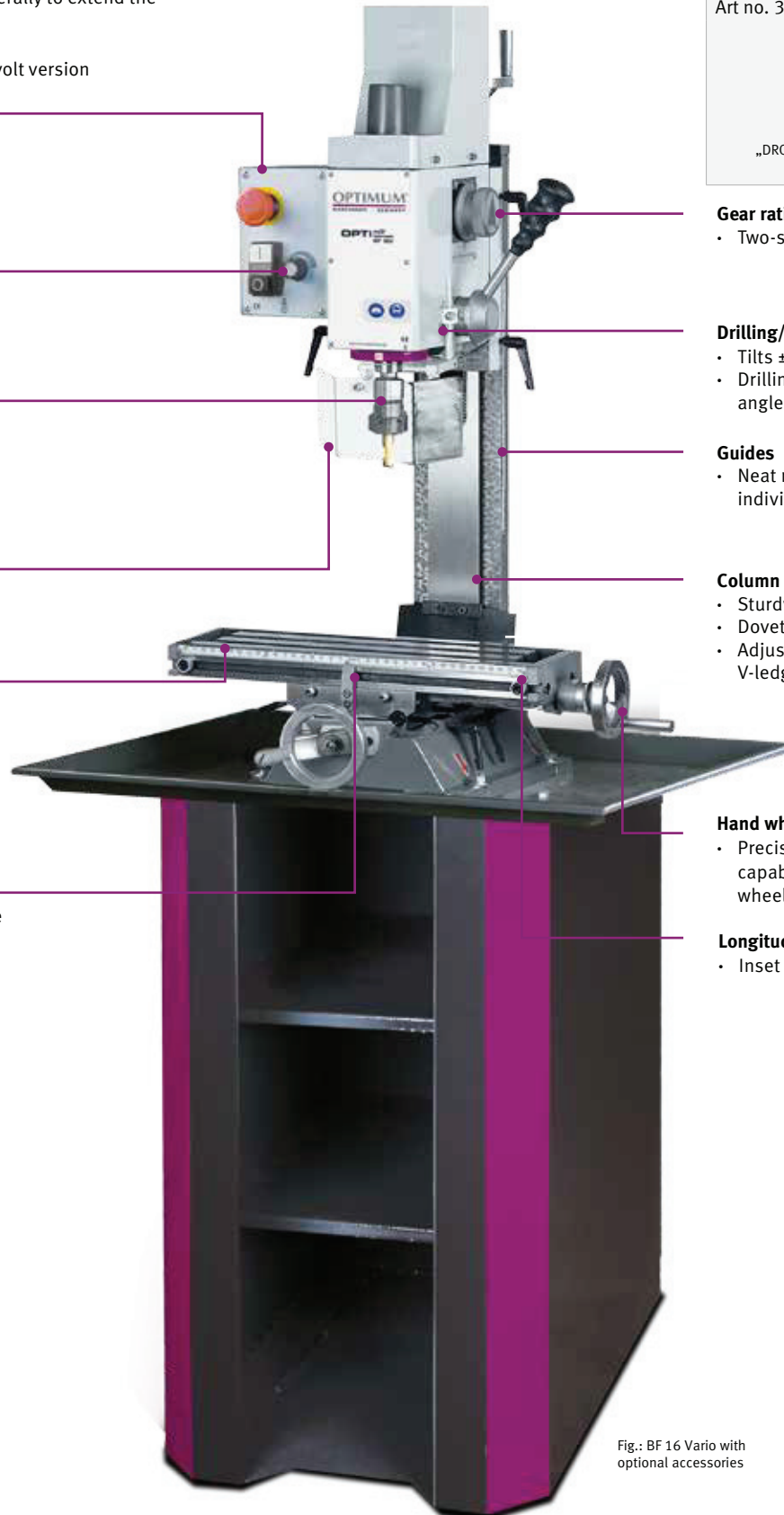


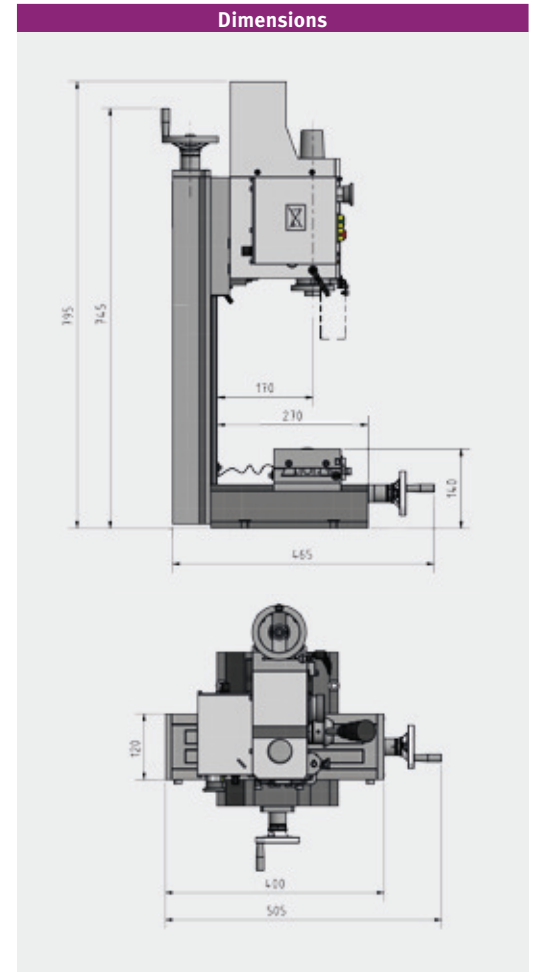
Fig.: BF 16 Vario with optional accessories

| Model | BF 16 Vario |
|---------------------------------------------------|-----------------------------------|
| Article no. | 3338116 |
| Technical data | |
| Electrical connection | 230 V / 1 Ph ~50 Hz |
| Motor output | 500 W |
| Drilling/milling output | |
| Drilling performance in steel (S235JR) | Ø 16 mm |
| Continuous drilling performance in steel (S235JR) | Ø 12 mm |
| Milling head size (max.) | Ø 63 mm |
| Max. shaft milling cutter size | Ø 20 mm |
| Spindle seat | |
| Spindle sleeve stroke | 50 mm |
| Spindle seat | MT 2 / M 10 |
| Throat | 170 mm |
| Tightening bar | M 10 |
| Drilling/milling head | |
| Swivel range | ± 90° |
| Spindle speeds | 100 - 3,000 rpm |
| Gears | 2-speed, electronic speed control |
| Cross table | |
| Clearance spindle to table | 275 mm |
| Table length x width | 400 x 120 mm |
| T-slot size/amount/spacing | 10 mm / 3 / 35 mm |
| Strokes | |
| X axis | 220 mm |
| Y axis | 160 mm |
| Z axis | 210 mm |
| Dimensions | |
| Length x width x height max. | 505 x 465 x 795 mm |
| Overall weight | 62 kg |

| Scope of Delivery |
|----------------------------|
| • Tapered mandrel MT 2/B16 |
| • Tightening bar M10 |
| • Operating tool |

| Zubehör | Artikel-Nr. |
|--------------------------------------------------------------|-------------|
| Spring collet set MT 2 / M10, direct clamping, 5-part | 3351980 |
| Spring collet set ER 25, 15-part | 3441109 |
| End mill set HSS TiN-coated | 3352113 |
| • 6 end mills DIN 1835 B short version with 2 cutting edges | |
| • 6 end mills DIN 1835 B long version with 2 cutting edges | |
| Quick clamping drill chuck 1 - 13 mm B16 | 3050623 |
| Assortment of clamping tools SPW 8 | 3352015 |
| Three-axis MV3-75 | 3354175 |
| Two-axis ZAS 50 | 3354170 |
| » More „Rotary indexing tables“ on page 96 onwards | |

The mill (frequency converter) complies with the DIN EN 55011 standard: class B



| Accessories |
|-----------------------------------------------------------------------------------------------------|
| Universal machine substructure Dimensions L x B x W: 420 x 340 x 800 mm Art no 3353000 |
| Spänewanne Dimensions L x B x W: 720 x 470 x 30 mm Art no 3352999 |
| Vibration dampers machine base SE 1 (4 pcs. required) Art no 3381012 |