

# Drilling-milling machines

## OPTI BF 20 VARIO

Stable drilling-milling machines with electronic regulation and digital sleeve travel indicator

### Convincing arguments: quality, efficiency and price

- Two-stage gear pair for a powerful conduction of the motor power
- D.C. motor with permanent speed monitoring
- Spindle sleeve feed via stargrip (drilling)
- Fine crossfeed of spindle sleeve when milling
- Feed spindles can be adjusted without clearance due to adjustable spindle nuts
- Digital sleeve travel indicator, precision of reading 0.01 mm
- Automatic off-switch (IP 54 compliant) for easy operation, with voltage circuit breaker
- Right left hand rotation
- Solid and precise dovetail slideway, adjustable without clearance V-ledge
- Expansion bellows for expansion bellows protection
- Easy and clear operation due to individually adjustable control panel
- Every travel is readable by graduation
- Machine lamp
- Electronic infinitely variable driving gear

### OPTI BF 20 Vario check-out:

### Precision in metal

“Metal working with Optimum BF 20 Vario is pur fun. Powerful, less vibration and quiet the versatile drilling-milling machine enables the production of dimensional accuracy work pieces with well proportioned surfaces. The price is without competition.”

Upshot of Heimwerker Test



### Extent of supply:

- Draw-in rod M 10
- Digital sleeve travel indicator
- Operating tools

Model	OPTI BF 20 Vario
Item No.	333 8120
€ (VAT excl.)	1,090.00

Technical data	
Drilling capacity (max.)	16 mm
Milling cap.inserted-tooth cutter (max.)	63 mm
Milling cap. of end mill cutter (max.)	20 mm
Working range	185 mm
Distance spindele/table (max.)	370 mm
Spindle holding fixture	MT 2 / M 10
Spindle speeds	100 - 3,000 rpm
Sleeve travel	42 mm
Cross table size (L x W)	500 x 180 mm
T-slot size	12 mm
Z-axis travel	280 mm
Y-axis travel	175 mm
X-axis travel	280 mm
Motor power 230 V / 50 Hz	600 W
Dimensions (L x W x H)	670 x 550 x 860 mm
Net weight	103 kg

### Optional accessories:

- **Attached adapter** (without engine)  
A high speed engine can be assembled upright (up to 26,000 rpm). L x W x H: 120 x 195 x 185 mm seat: Ø 42 mm



### Optional accessories:

- **Attached adapter**  
For assembling of upright and milling head at the engine bed of the turning machines: OPTI D 240 x 500 G, OPTI D 280 x 700 G, quantum D 250

### Optional accessories:

- **Universal substructure** with lockable table and pigeon hole  
L x W x H: 420 x 340 x 800 mm



**Optional accessories:**  
 ■ digital magnetical measuring system MPA 3  
 Item No: 338 3912, at page 48

■ The drill head can be swivelled +/- 90° thus permitting milling and drilling operations in any angular position

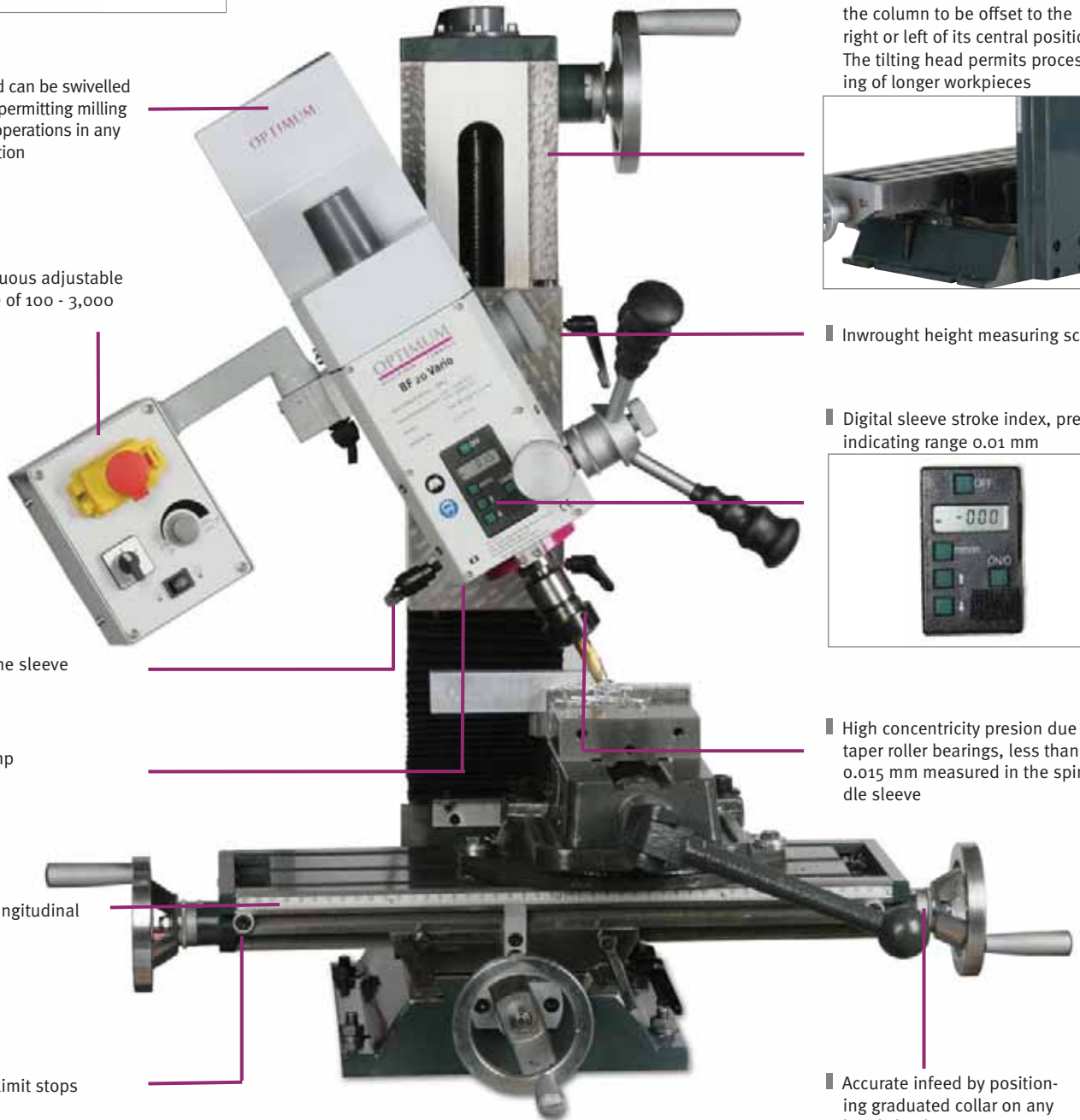
■ Great continuous adjustable speed range of 100 - 3,000 rpm

■ Fixation of the sleeve by clamping

■ Machine lamp

■ Inwrought longitudinal scale

■ Adjustable limit stops



■ Additional bolt holes allow for the column to be offset to the right or left of its central position. The tilting head permits processing of longer workpieces



■ Inwrought height measuring scale

■ Digital sleeve stroke index, precision indicating range 0.01 mm



■ High concentricity precision due to taper roller bearings, less than 0.015 mm measured in the spindle sleeve

■ Accurate infeed by positioning graduated collar on any handwheels

**BF 20 Vario** - illustration with optional collet holder, milling cutter and machine vice

Accessories	Item No.	€ (VAT excl.)
■ Universal substructure	335 3002	<b>169.00</b>
■ Adapter (High speed motor)	335 6571	<b>89.00</b>
■ Adapter for D 240 / D 280 / D 250	335 6572	<b>89.00</b>
■ Three-axis position display MPA 3	338 3912	<b>799.00</b>
■ Collet kit 5 pcs. MT2/M10 4/6/8/10/12 mm direct clamping	335 1980	<b>89.00</b>
■ Collet chuck holder MT2 / M10 (ER 25)	335 2044	<b>99.00</b>

Accessories	Item No.	€ (VAT excl.)
■ Collet kit ER 25, 15 pcs. 1-16mm	344 1109	<b>240.00</b>
■ MT for taper mandrel MT2 / M10 / B16	305 0670	<b>14.90</b>
■ Cutter kit 12 pcs. (4 - 5 - 6 - 8 - 10 - 12) (each with 2 and 4 cutting edges) TiN-coated	335 2113	<b>55.00</b>
■ Cutter with holding taper MT2/M10/B16	335 2102	<b>39.00</b>

More accessories from page 27 onwards