

Universal precision drilling-milling machine for the demanding user

Convincing arguments: quality, efficiency and price

- Heavy compact casting
- Infinitely variable drive
- High concentricity precision due to taper roller bearings, better than 0.015 mm measured in the spindle sleeve
- Gearhead $\pm 90^\circ$ rotatable
- Solid dovetail slideway of the gearhead provides for highest stability and optimum precision
- Optional, solid, heavy steel substructure provides for stability
- Drill depth stop
- Threading mode
- Automatic mode
- CNC prepared (special spindle bearing of the axes and assembly options of the Y-axis housing from the rear side)
- Price-efficient and stable value

Optional steel substructure

- Figure with switch combination of the optional universal coolant equipment (not included in delivery)
- Compact and heavy, provides for stability
- Chip drip plates
- Dimensions L x W x H: 1234 x 750 x 884 mm
- Weight: 130 kg

Item No 335 3005
€ 619.00 (VAT excl.)



Model	OPTI BF 46 VARIO
Item No	333 8453
€ (VAT excl.)	3'690.00
Features of performance	
Electrical connection	
Motor	2.2 kW 230 V ~50 Hz
Drilling-milling capacity	
Drilling capacity in casting (max.)	\varnothing 45 mm
Drilling capacity in steel (max.)	\varnothing 38 mm
Milling capacity cutter head (max.)	\varnothing 80 mm
Milling capacity end mill cutter (max.)	\varnothing 32 mm
Working range	260 mm
Spindle holding fixture	
Spindle holding fixture	ISO 40 (DIN 2080, DIN 69871)
Sleeve travel	115 mm
Draw-in rod	M16
Drill-mill head	
Head rotation	$\pm 90^\circ$
Gear stages	3 stages, continuously variable
Z-axis travel	541 mm
Speeds	
Gear stage low	65 - 650 rpm
Gear stage average	150 - 1500 rpm
Gear stage fast	330 - 3300 rpm
Cross table	
Table length	850 mm
Table width	240 mm
Y-axis travel	250 mm
X-axis travel	500 mm
T-slot size	18 mm
T-slot distance/number	80 mm/3
Dimensions	
Length x Width x Height	1230 948 x 1519 mm
Net weight	480 kg
Extent of supply	
	Draw-in rod M 16 Operating tools

Accessories	Art-Nr	€ (VAT excl.)
· Vibration-damping machine stand SE1	338 1012	19.00
· Hydraulic machine vice HMS 125	335 5127	599.00
· Parallel spacer kit	335 4000	169.00
· Parallel spacer kit	335 4001	95.00
· Universal coolant equipment 230 V	335 2002	189.00
· End mill cutter kit HSS 20 pcs.	338 6200	105.00
· Height-adjustable tailstock RST 1	335 6155	89.00
· Horizontal-vertical-circular div. table RT 200	335 6200	349.00

Arbor for drill chuck

- Outside cone ISO 40
 - Drill chuck cone B16
- Item No 335 2070 **€ 59.00 (VAT excl.)**



Arbor for milling cutter

- Outside cone ISO 40
 - Seat of milling cutter \varnothing 22 mm
- Item No 335 2071 **€ 55.00 (VAT excl.)**



Collet chucks kit

- Outside cone ISO 40
 - Seat of collet chucks ER 32
 - Incl. 7 collet chucks 3 - 20 mm
 - Handy plastic box
- Item No 335 2055 **€ 209.00 (VAT excl.)**



Universal table feed Opti V 99

- With infinitely variable speed adjustment
 - Fast motion
- Item No 335 2020 **€ 439.00 (VAT excl.)**



Assembly kit table feed V 99

Item No 335 2027 **€ 79.00 (VAT excl.)**



Exchange	Item No	€ (VAT excl.)
· Spindle MT 4 for change incl. factory assembling	900 0439	150.00

More accessories from page 52 on

BF 46 Vario



2007

Vario drive

- High-performance

Spindle speeds

- Infinitely variable speed adjustment
- Spindle speeds from 65 up to 3300 rpm

Control panel

- Digital speed display
- Emergency-stop push button
- Selector switch operating mode/rotating direction
- Potentiometer

Depth gauge

- Digital
- Accuracy of the display 0.01 mm
- Reversible mm/inch

Cross table

- Compact, precise and largely dimensioned
- Precisely machined surface
- T-slots
- Adjustable V-ledges
- Adjustable via 3 handwheels
- Included length measuring scale
- Adjustable limit stops

Gear

- Three-step

Spindle sleeve feed

- Via star grip (drilling)
- Coupler to change from manual rough feed to manual fine feed
- Handwheel for spindle sleeve fine feed

Upright

- Compact dovetail slideway
- Highest stability and optimum precision

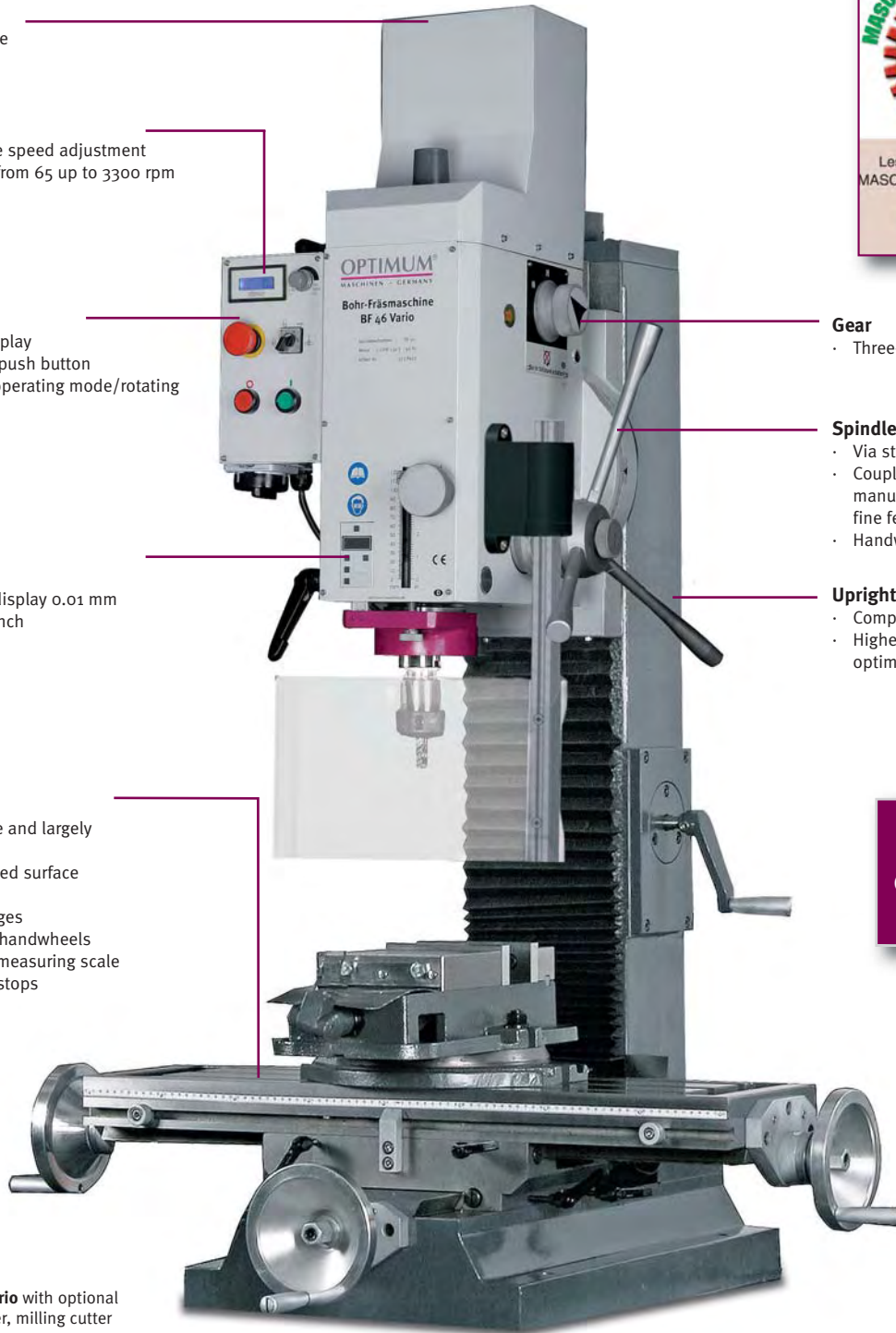
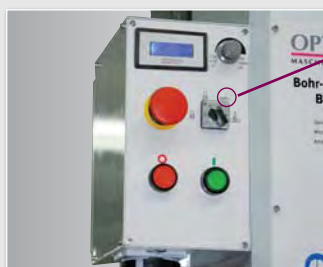


Fig.: **Opti BF 46 Vario** with optional collet chuck holder, milling cutter and machine vice

Optional:
CNC
Complete and add-on kit
see on pages 136-137



Fig.: **BF46 Vario CNC**



Operating mode "auto" auto

- In the automatic mode, the engine will start automatically upon lifting the lever and stops in the initial position. This way, it is not necessary to press the push button Start and Stop for repeated drilling tasks



Operating mode "Threading"

- The engine is being activated by moving the star grip downward.
- The turning direction is changed by pressing the end switch on the adjustable drilling depth stop

