

## Multifunctional drilling-milling machines for professional use. Infinitely variable speed control with frequency converter “Made in Germany”

### Convincing arguments: quality, efficiency and price

- Heavy, compact model made of high-grade Meehanite casting
- Solid rectangular slideways for Z-axis (OPTI MF 4 Vario)
- All axes with adjustable dovetail slideway
- Right-/left-handed rotation
- High concentricity precision due to taper roller bearings, better than 0.01 mm measured in the spindle sleeve
- Automatic spindle sleeve feed
- Main switch with motor protection, right-/left-handed rotation switch, emergency-stop button
- Coolant equipment supplied as standard
- Price-efficient and stable value

Model	OPTI MF 2 Vario	OPTI MF 4 Vario
Item No	333 6020	333 6040
€ (VAT excl.)	9'400.00	12'400.00
Model	OPTI MF 2 Vario-DPA	OPTI MF 4 Vario-DPA
Item No	333 6020DPA	333 6040DPA
€ (VAT excl.)	10'900.00	13'900.00
Features of performance		
Electrical connection		
Motor	1.5 kW 400 V ~50 Hz	3.75 kW 400 V ~50 Hz
Drilling- milling capacity		
Drilling capacity in casting	max. Ø 18 mm	max. Ø 24 mm
Drilling capacity in steel	max. Ø 16 mm	max. Ø 20 mm
Milling capacity cutter head	max. Ø 76 mm	max. Ø 100 mm
Milling capacity end mill cutter	max. Ø 18 mm	max. Ø 20 mm
Spindle holding fixture		
Spindle holding fixture	ISO 40 (DIN 2080 / 69871)	ISO 40 (DIN 2080/69871)
Sleeve travel	127 mm	127 mm
Drill-mill head		
Inclination of spindle head	± 45°	± 45°
Gear stages	6 stages, continuously variable	8 stages, continuously variable
Automatic spindle sleeve feed	0.04/0.08/0.15 mm/rev	0.04/0.08/0.15 mm/rev
Working range	213 - 533 mm	200 - 680 mm
Speeds		
Spindle speed	10 - 5100 rpm	9 - 6750 rpm
Cross table		
Table length	1244 mm	1370 mm
Table width	230 mm	254 mm
Load of cross table (max.)	230 kg	275 kg
Y-axis travel manual	305 mm	400 mm
X-axis travel automatic	800 mm	800 mm
Z-axis travel	406 mm manual	406 mm automatic
T-slot size	16 mm	16 mm
T-slot distance	63 mm/number 3	63 mm/number 3
Distance spindle - cross table	57 - 463 mm	40 - 446 mm
Dimensions		
Length x Width x Height	1400 x 1450 x 2150 mm	1500 x 1450 x 2200 mm
Net weight	950 kg	1150 kg
Extent of supply		
	Coolant equipment Chip tray Automatic table feed X-axis Automatic table feed Z-axis (MF4 Vario) Operating tools	

### Information



OPTI MF 2 Vario-DPA  
OPTI MF 4 Vario-DPA

Info DPA 2000 on page 95

- Incl. digital position display DPA 2000
- Incl. glass scales for three axes
- Incl. assembly

### Accessories

#### Clamping tool kit SPW 14

- Metric threads
- Item No 335 2018
- € 89.00 (VAT excl.)



#### 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 Ø 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.)



#### Tool clamping system ISO 40

- Short replacement times
- One-hand operation
- High achievable vacuum
- Item No 335 2394
- € 590.00 (VAT excl.)



Info tool clamping system on page 62

#### Universal table feed V 250

- Y-axis
- Infinitely variable speed adjustment
- Fast motion
- Incl. assembly kit
- Item No 335 2025
- € 469.00 (VAT excl.)



More accessories from page 52 on

## MF 2 Vario MF 4 Vario

### Spindle speeds

- Infinitely variable speed control
- Frequency converter made in Germany
- Very wide speed range

### Drill-mill head

- Inclined by  $\pm 45^\circ$
- Working range  
215 - 533 mm MF 2 Vario  
200 - 600 mm MF 4 Vario

### Drill depth stop

- Adjustable with millimeter scale
- Readable at the front

### Screening grid

- Height-adjustable
- Largely dimensioned

### Vertical setting range cross table

- 406 mm automatic for MF 4 Vario  
manual for MF 2 Vario

### Control panel

- Slewable
- Largely dimensioned
- Clearly arranged

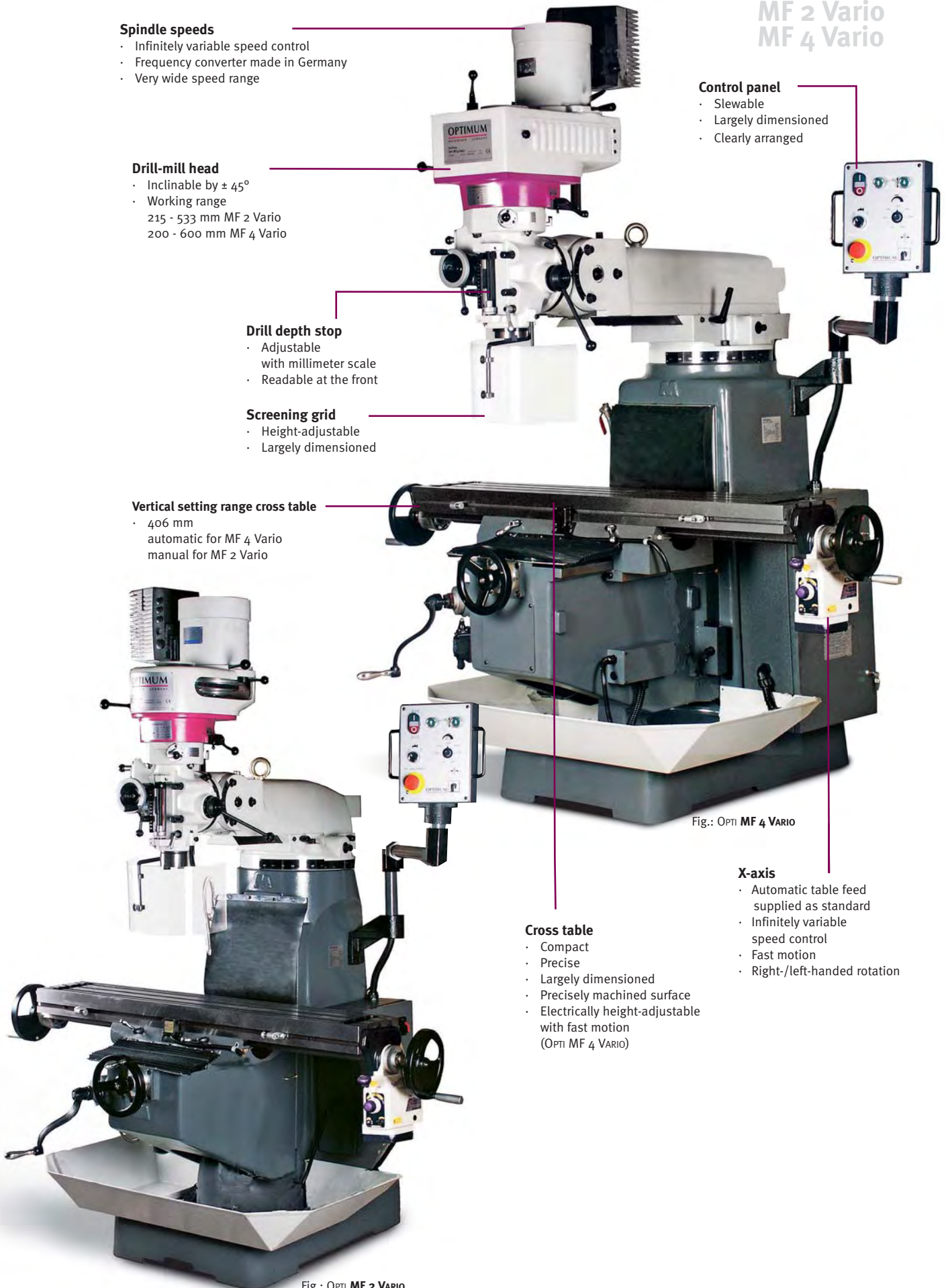


Fig.: OPTI MF 4 VARIO

### X-axis

- Automatic table feed supplied as standard
- Infinitely variable speed control
- Fast motion
- Right-/left-handed rotation

### Cross table

- Compact
- Precise
- Largely dimensioned
- Precisely machined surface
- Electrically height-adjustable with fast motion (OPTI MF 4 VARIO)

Fig.: OPTI MF 2 VARIO