

## Universal milling machine for horizontal and vertical milling work with digital 3-axis position display DPA 2000

### Facts that impress in terms of quality, performance and price

- ▶ Heavy, solid design using premium vibration-absorbing grey cast material
- ▶ Spindle sleeve feed via spindle sleeve lever or manual fine feed hand wheel
- ▶ X axis can be moved optionally with the hand wheel or the table feed unit
- ▶ Vertical position
- ▶ Spindle head carrier rotates through 180°
- ▶ Gears in oil bath with polished, hardened gear wheel
- ▶ Right-handed/left-handed rotation
- ▶ Precision Cross table, generously dimensioned with precision surface finish with adjustable V-ledges
- ▶ Automatic end position cut-off on X axis

### OPTi Control panel

- Integrated switch panel
- Integrated **digital position display DPA 2000**



### Milling head

- Inclined through 90° left and right

### Spindle head carrier

- Inclined through 90° left and right

### Horizontal milling counter-holder

- Always handy through attaching to the rear side

### Coolant system

- Dosing and shut-off valve
- Flexible metal hose

### LED machine lamp

- Halogen light with bundled beam
- Anodised, round reflector with medium width beam

### Cross table housing

- Protection against chips and coolant
- Removable

### Cross table

- Solid
- Precise
- Generously dimensioned
- Precise surface finish

**Longer Cross table  
1000 x 240 mm**

Fig.: OPTImill MT 50

## Technical data and accessories



### Horizontal milling position

- For work in horizontal milling position with arbor and collet for disc milling cutter



### Control panel

- Inclined to left and right side of machine

### Digital position display DPA 2000

- Clear reduction of manufacturing times
- Easy to use
- Greater operation accuracy
- Reduction of error quota
- Clearly-arranged keyboard layout
- Dazzle-free display



### Table feed

- Motorised table height adjustment
- Gear motor - Table feed for the X axis



### Cross table housing

- Fold-up type
- Removable

Model	MT 50
Article no.	3336005
<b>Technical specifications</b>	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	4.5 kW
Coolant pump output	40 W
<b>Drilling/milling output</b>	
Drilling performance steel (S235JR)	Ø 30 mm
Continuous drilling performance steel (S235JR)	Ø 25 mm
Milling head size (max.)	Ø 100 mm
Max. shaft milling cutter size	Ø 25 mm
<b>Vertical spindle</b>	
Drive motor	1.1/2.2 kW
Spindle seat	ISO 40 DIN 2080
Spindle sleeve stroke	120 mm
Throat	240 - 650 mm
Spindle speeds	115 - 1,750 rpm
Gears	8 gears
<b>Horizontal spindle</b>	
Drive motor	1.5 kW
Spindle seat	ISO 40 DIN 2080
Throat	0 - 185 mm
Spindle speeds	60 - 1,350 rpm
Gears	9 gears
<b>Cross table</b>	
Table length x width	1,000 x 240 mm
Cross table max. load	160 kg
T-slot size / quantity	14 mm / 4
<b>Strokes</b>	
X axis	manual 580 mm/automatic 500 mm
Table feed X axis (8 speeds)	24 / 720 mm/min.
Y axis manual	200 mm
Z axis manual	340 mm
<b>Dimensions</b>	
Length x width x height	2,270 x 1,500 x 2,100 mm
Overall weight	820 kg
Transport packaging flat rate	TPFR2

### Scope of Delivery

- Gear rim drill chuck 1 - 16 mm / B18
- Arbor for drill chuck ISO40 / B18
- Cutter spindle horizontal milling Ø 22 mm / 27 mm
- Reduction sleeves ISO 40-MT 3 / ISO 40-MT 2
- Tie rod vertical and horizontal
- T-slot nuts
- Push-out tool
- Operating tool

Accessories	Article no.
Parallel shim set, 20-part	3354001
Vibration-damping machine base SE2 (4 pcs. required)	3381016
Assortment of clamping tools SPW 12	3352017
Collet chuck set 18-part ISO 40	3352056
Horizontal-vertical rotary indexing table RT 200	3356200
Arbor for drill chuck ISO 40 / B16	3352070
Pull stud ISO 40 / B16	3536179
<b>Vices</b>	
HMS 125	3355127
FMS 125	3354125
› More „Rotary indesing tables“ on page 96 onwards	