

## OPTi mill<sup>®</sup>\* MT 60

### Universal milling machine for horizontal and vertical milling work.

With digital 3-axis position display DPA 21

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

- ▶ Tilting drilling/milling head  $\pm 90^\circ$
- ▶ Spindle head carrier moves to front and rear
- ▶ Heavy, solid design using premium vibration-absorbing grey cast material
- ▶ Counterholder for horizontal milling attached to rear for easy access
- ▶ 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
- ▶ Coolant system
- ▶ Automatic spindle sleeve feed
- ▶ Height-adjustable protective screen with microswitch for best possible user protection against chips and parts being flung out
- ▶ Solid and generously dimensioned cross table with precision surface finish including adjustable cleats, tilting  $\pm 45^\circ$

#### Horizontal milling position



› with arrester and collet for disc milling cutter

#### OPTi Control panel

- › Integrated switch panel
- › Integrated digital position display
- › Rotates about its own axis

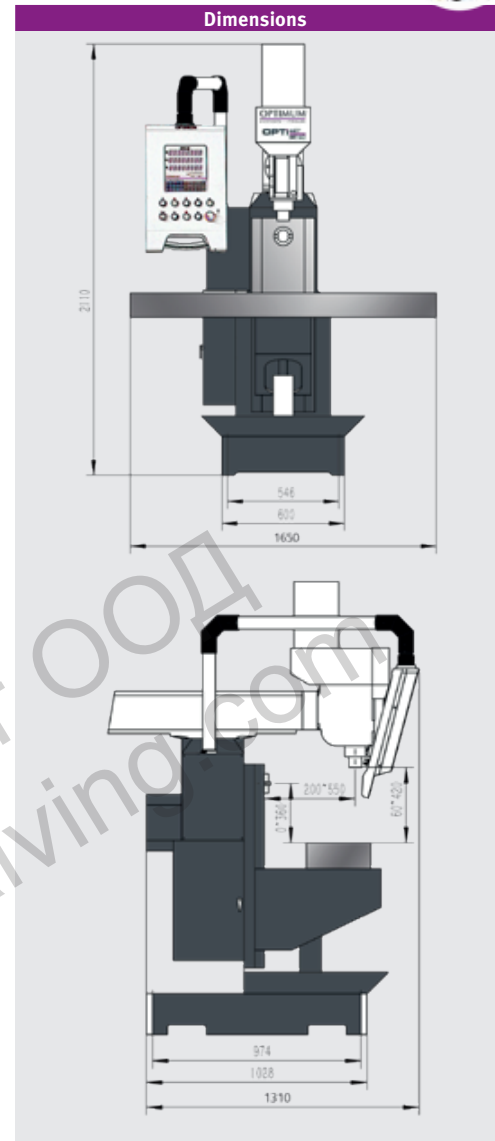




## Technical specifications, accessories and dimensions

Model	MT 60
Article no.	3336090
<b>Technical data</b>	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	5 kW
Horizontal and vertical drive motor	2.2 kW
Coolant pump motor	40 W
<b>Drilling/milling output</b>	
Drilling performance in steel (S235JR)	Ø 30 mm
Continuous drilling performance in steel (S235JR)	Ø 25 mm
Max. sensor head size	Ø 100 mm
Max. shaft milling cutter size	Ø 25 mm
<b>Spindle</b>	
Spindle seat	ISO 40 DIN 2080
<b>Vertical</b>	
Spindle sleeve stroke	120 mm
Clearance spindle to cross table	60 - 420 mm
Spindle sleeve diameter	Ø 90 mm
Draw-in rod	M16
Spindle speeds	90 - 2 000 rpm
Speeds	8 speeds
Throat	200 - 550 mm
Automatic spindle sleeve feed	3 speeds: 0.08 / 0.25 / 1 mm/rev
<b>Horizontal</b>	
Throat	35 - 370 mm
Spindle speeds	40 - 1 300 rpm
Speeds	9 speeds
<b>Cross table</b>	
Length x width	1 270 x 280 mm
Cross table max. load bearing capacity	150 kg
T-slot size / spacing / count	14 mm / 50 mm / 4
<b>Travel</b>	
X axis manual / automatic	750 mm / 680 mm
Y axis manual	230 mm
Z axis manual	360 mm
<b>Dimensions</b>	
Length x width x height	1 650 x 1 310 x 2 160 mm
Weight	1 300 kg

Accessories	Article no.
Parallel shim set, 20-part	3354001
Horizontal-vertical rotary indexing table RT 150	3356150
Horizontal-vertical rotary indexing table RT 200	3356200
Horizontal-vertical rotary indexing table RTE 165	3356365
Horizontal-vertical rotary indexing table RTU 165	3354165
Assortment of clamping tools size 12, 58-parts	3352017
End mill set HSS TiN-coated 12-part	3352250
End mill set HSS TiN-coated 20-part	3352255
Workpiece support WPS-4	3354264
Precision machine shoe SEU1 (4 pcs. required) see page 132	3352985
Levelling platen SE 85 (4 pcs. required)	3352982
Arbor for drill chuck ISO 40/M16/B16	3352070
Collet chuck set 18-part ISO40	3352056
Hold-down unit set of 2	3352031
Copying and facing blade head ISO 40 DIN 2080	3350216
Precision bore head set ISO 40	3352128
› <b>More accessories for milling machines</b> from page 126	



### Scope of supply

- › Key type drill chuck Ø 1 - 16 mm / B16
- › Arbor for drill chuck ISO40 / B16
- › Adapter ISO 40 / MT 3
- › Adapter ISO 40 / MT 2
- › Cutter spindle horizontal milling Ø 22 mm
- › Cutter spindle horizontal milling Ø 27 mm
- › Milling chuck Ø 4 - Ø 16 mm
- › Tie rod vertical and horizontal
- › Operating tool

Machine vices	Article no.
FMS 125	3354125
FMSN 125	3354120
VMQ 100	3354181
MV3-75	3354175
MV3-125	3354178
DAS 100	3355500
ZAS 50	3354170
› Information about vices from page 120	