

OPTi mill^{®*} MT 200

Versatility and easy retooling

the universal milling machine for workshops with digital 3-axis position display

Facts that impress in terms of quality, performance and price

- ▶ Versatile range of applications
- ▶ Heavy, solid design using premium cast meehanite
- ▶ Vertical and horizontal milling position
- ▶ Rugged machine construction
- ▶ Milling head pivots and rotates to any spatial angle
- ▶ Smooth action due to polished gearwheels running in an oil sump
- ▶ Milling head with two axes of rotation, thus pivots and rotates to any spatial angle
- ▶ Counterholder for horizontal milling attached to rear for easy access
- ▶ All guides tempered and adjustable using cleats
- ▶ Central lubrication
- ▶ Generously dimensioned, decoupled hand wheels with scales
- ▶ LED machine lamp
- ▶ Coolant system
- ▶ Easy operation of the switching elements
- ▶ Sturdy, square guide rails on Y and Z axis
- ▶ 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 and T-slots
- ▶ Table feed X, Y and Z axis
- ▶ Digital position display DPA 2000
- ▶ Feed motor with fixed speeds

Horizontal milling position



- > with arrester and collet for disc milling cutter
- > Adjustable plain bearing

OPTi Control panel

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

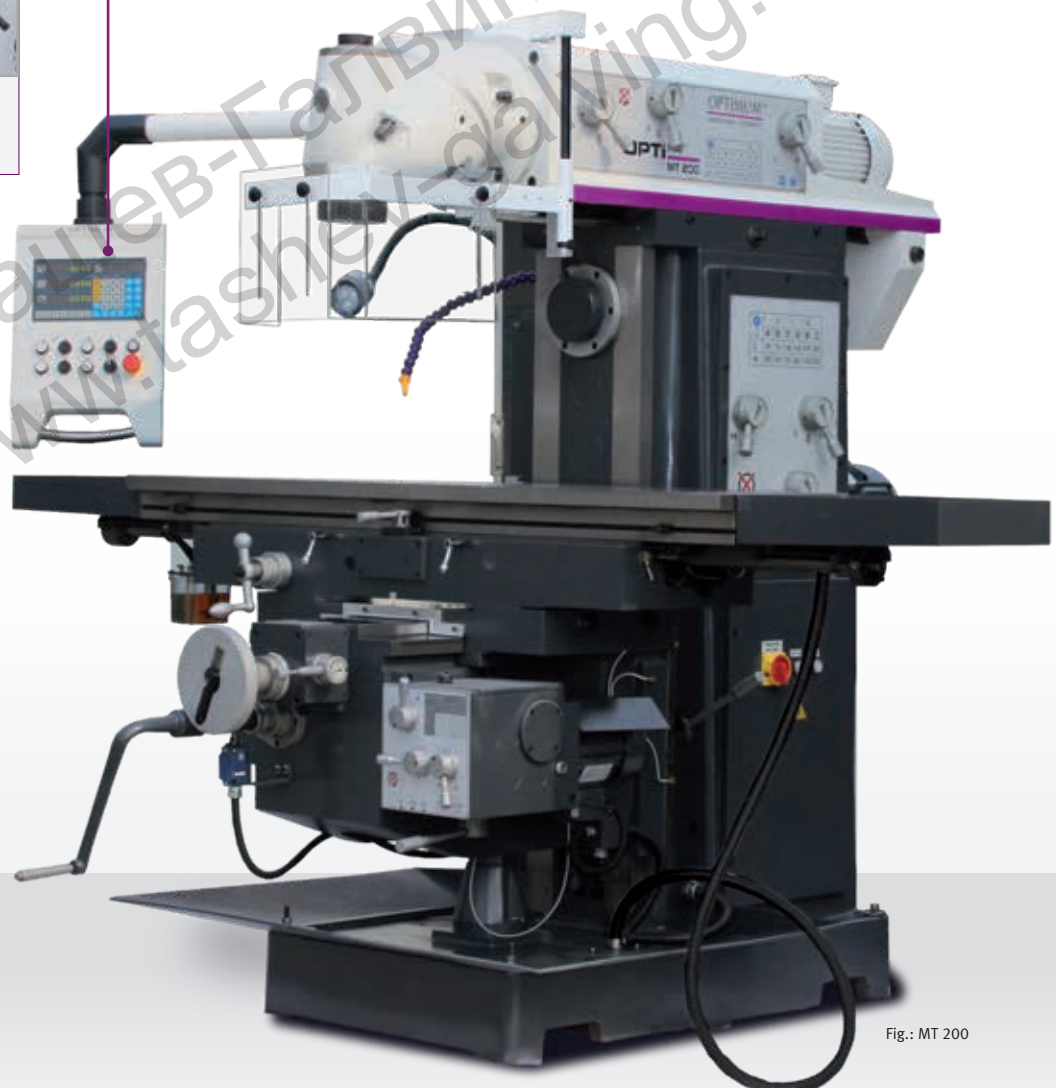


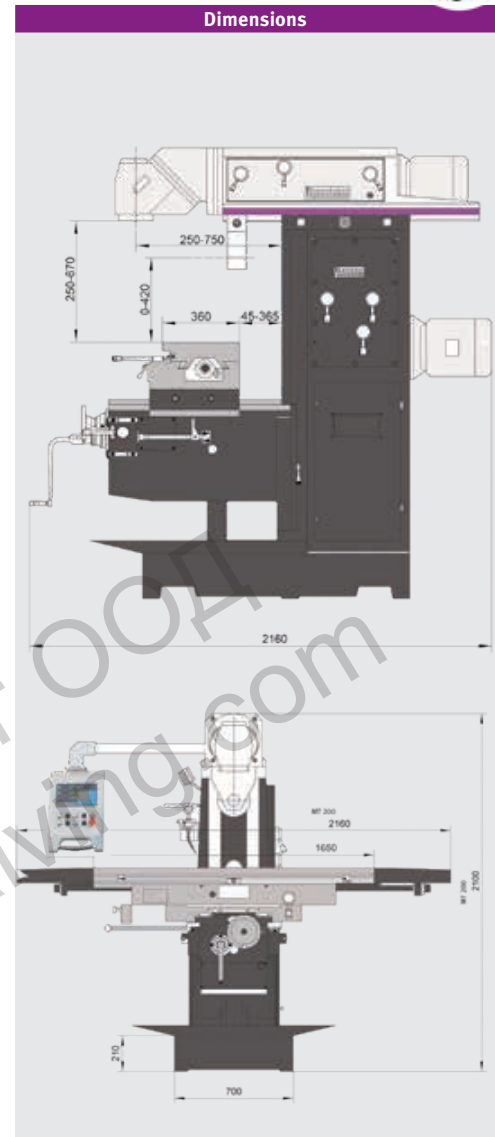
Fig.: MT 200



Technical specifications, accessories and dimensions

Model	MT 200
Article no.	3336120
Technical data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	9.2 kW
Horizontal and vertical drive motor	4 kW
Feed motor output	1.1 kW
Coolant pump motor	90 Watts
Milling capacity	
Max. sensor head size	Ø 100 mm
Max. shaft milling cutter size	Ø 20 mm
Spindle	
Horizontal and vertical spindle seat	ISO 50 DIN 2080
Vertical	
Draw-in rod	M24
Clearance spindle to cross table	250 - 670 mm
Distance spindle to column	250 - 750 mm
Spindle speeds	60 - 1 750 rpm
Speeds	12 speeds
Milling head tilt angle	360°
Horizontal	
Clearance spindle to cross table	0 - 420 mm
Spindle speeds	58 - 1 800 rpm
Speeds	12 speeds
Cross table	
Length x width	1 650 x 360 mm
Max. load bearing capacity	450 kg
T-Slot size / distance / no	14 mm / 95 mm / 3
Rotating	35°
X axis	
Travel	manual 1 209 mm / automatic 1 210 mm
Table feed automatic	22 - 380 mm/min.
Table feed, stages	8 speeds
Table feed rapid motion	1 290 mm/min.
Y axis	
Cross table stroke	manual 280 mm / automatic 200 mm
Table feed automatic	20 - 380 mm/min.
Table feed, stages	8 speeds
Table feed rapid motion	200 mm/min
Z axis	
Travel	manual 400 mm / automatic 320 mm
Table feed automatic	7 - 127 mm/min.
Table feed, stages	8 speeds
Table feed rapid motion	342 mm/min.
Dimensions	
Length x width x height	1 920 x 2 350 x 2 200 mm
Weight	2 220 kg

Accessories	Article no.
Parallel shim set, 20-part	3354001
Assortment of clamping tools size 12, 58-parts	3352017
Blank holder set of 2 14 mm/M12	3352031
Precision machine shoe SEU1 (4 pcs. required) see page 132	3352985
Morse cone ISO50 B18 DIN2080	3352067
› More accessories for milling machines from page 126	



Scope of supply

- › Cutter spindle horizontal milling ISO 50 Ø 22 mm
- › Cutter spindle horizontal milling ISO 50 Ø 27 mm
- › Milling head holder ISO 50 Ø 32 mm
- › Collet chuck ISO 50 Ø 4 - Ø 26 mm
- › Operating tool

Machine vices	Article no.
FMS 200	3354200
HMS 125	3355127
MV3-75	3354175
MV3-125	3354178
ZAS 50	3354170
DAS 100	3355500
HCV 105	3536210
HCV 125	3536214

- › Information about vices from page 120