

OPTi mill[®]* MT 230S

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
- ▶ Rugged machine construction
- ▶ Smooth action due to polished gearwheels running in an oil sump
- ▶ Heavy, solid design using premium cast meehanite
- ▶ All guides tempered and adjustable using cleats
- ▶ Central lubrication
- ▶ Generously dimensioned hand wheels with scales
- ▶ LED machine lamp
- ▶ Coolant system
- ▶ Easy operation of the switching elements
- ▶ Rugged, rectangular guide rails on Y and Z axis
- ▶ Table feed X, Y and Z axis automatic
- ▶ Digital position display DPA 21
- ▶ Feed system controllable by servomotor in fixed steps
- ▶ Decoupled hand wheels
- ▶ Solid and generously dimensioned cross table with precision surface finish including adjustable cleats and end stops
- ▶ Horizontal milling position
- ▶ Horizontal milling counterholder, attached to rear of machine for easy access
- ▶ Milling head with two axes of rotation, thus pivots and rotates to any spatial angle

OPTi Control panel

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

Horizontal milling position



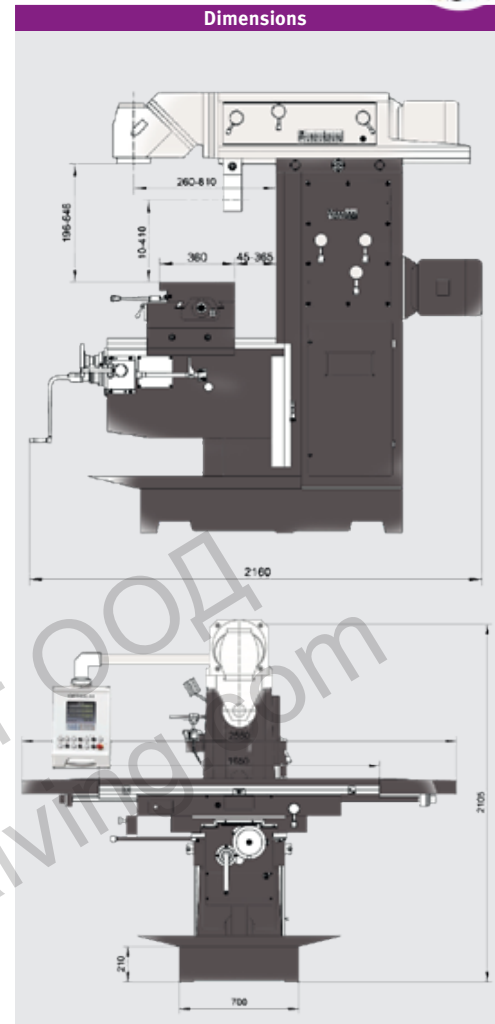
- ▶ For work in horizontal milling position with arrester and collet for disc milling cutter
- ▶ Adjustable plain bearing





Technical specifications, accessories and dimensions

Model	MT 230S
Article no.	3344125
Technical specifications	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	12 kW
Vertical drive motor	4 kW
Horizontal drive motor	5.5 kW
Coolant pump output	90 Watts
Milling capacity	
Max. sensor head size	Ø 160 mm
Max. shaft milling cutter size	Ø 25 mm
Spindle	
Spindle seat	ISO 50 DIN 2080
Vertical	
Draw-in rod	M24
Spindle speeds	60 - 1 750 rpm
Speeds	12 speeds
Clearance spindle to cross table	190 - 590 mm
Distance spindle to column	260 - 910 mm
Milling head tilt angle	360°
Horizontal	
Clearance spindle to cross table	20 - 420 mm
Spindle speeds	60 - 1 800 rpm
Speeds	12 speeds
Cross table	
Length x width	1 600 x 360 mm
Max. load bearing capacity	400 kg
T-Slot size / no / distance	18 mm / 3 / 80 mm
Rotating	35°
X axis	
Travel	manual 1 300 mm / automatic 1 220 mm
Table feed automatic	30 - 750 mm/min.
Table feed rapid motion	1 200 mm/min
Y axis	
Cross table stroke	manual 300 mm / automatic 220 mm
Table feed automatic	20 - 500 mm/min.
Table feed rapid motion	800 mm/min
Z axis	
Travel	manual 400 mm / automatic 320 mm
Table feed automatic	15 - 375 mm/min.
Table feed rapid motion	600 mm/min
Dimensions	
Length x width x height	2 520 x 2 160 x 2 030 mm
Overall weight	2 800 kg



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 40 mm
- › Adapter ISO 50 (7:24) / MK4
- › Collet chuck ISO 50 Ø 4 - Ø 16 mm
- › Horizontal and vertical tie rod M24
- › Spring collets Ø 4 - Ø 26 mm
- › Operating tool

Accessories	Article no.
Parallel shim set, 20-part	3354001
Assortment of clamping tools size 16, 58-parts	3352017
Collet chuck set ISO 50/ER32	3352065
Precision machine shoe SEU1 (4 pcs. required) see page 132	3352985
Blank holder set of 2 18 mm/M16	3352032
Morse cone ISO50 B18 DIN2080	3352067
Precision bore head set ISO 50	3352129
› More Accessories from page 126	

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	