

Universal milling machine

OPTImill MT 200

Versatility and easy conversion - with digital 3-axis position indicator for workshops

Article number ▼

3336120

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Milling machines
conventional » OPTImill MT 200 / 220S

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	2,260 mm	Gross	2,920 kg	Delivery	Special transportation	DualUse	✘
Width	2,070 mm	Net	2,700 kg	Content	1 pc(s).	SCIP	n/a
Height	2,250 mm					SVHC	No



Description ▼

- Versatile application
- Heavy, solid design made of high-quality Meehanite cast iron
- Vertical and horizontal milling position
- Robust machine construction
- Smooth running due to polished gear wheels running in oil bath
- Milling head with two axes of rotation, swiveling and rotating in every spatial angle
- Backstop for horizontal milling by attachment to the back always at hand
- All guides are hardened and adjustable by means of wedges
- Central lubrication
- Large sized decoupled handwheels with scale
- LED machine lamp
- Coolant system
- Easy operation of the switching elements
- Stable flat bed guide in the Y and Z axis
- Height-adjustable protective screen with micro-switch, against flying chips and parts, for maximum protection of the user
- Massive and large-dimensioned XY stage, precisely surface-finished with T-slots
- Table feed X, Y and Z axis
- Digital position indicator DPA 2000
- Feed motor with fixed steps

OPTI control panel

- Integrated control panel
- Integrated digital position indicator
- Rotatable around its own axis

Delivery content ▼

- Milling spindle Horizontal milling ISO 50 Ø 32 mm
- Milling spindle Horizontal milling ISO 50 Ø 27 mm
- Adapter for cutterhead ISO 50 Ø 32 mm
- Collet chuck ISO 50 Ø 4 - 26 mm
- Operating Tool

Media informations ▼



Horizontal milling position

- With counterholder and holder for side milling cutter
- Adjustable plain bearing
- Counterholder horizontal milling mounted within reach on the back of the machine



OPTI control panel

- Integrated control panel
- New now with integrated **digital position indicator DPA 21**
- Swivels to the left and right side of the machine



Milling head

- The milling head has two axes of rotation, which allows it to swivel and rotate at any spatial angle.
- By turning the rear and the front part of the milling head, a certain angle can be set in the vertical position of the milling head to the feed axis of the cross table

Technical data ▼

Dimensions and weights

Length (product) approx.	2160 mm	Width/depth (product) approx.	2160 mm
Height (product) approx.	2100 mm	Net weight approx.	2700 kg
Drilling/milling output			
Max. size milling head	100 mm	Max. size shaft milling cutter	20 mm
Fast motion speed			
Fast motion speed X axis	1290 mm/min	Fast motion speed Y axis	1290 mm/min
Fast motion speed Z axis	342 mm/min		
Electrical Data			
Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	1650 mm	Horizontal milling table width	360 mm
Min. clearance vertical spindle - horizontal milling table	250 mm	Max. clearance vertical spindle - horizontal milling table	670 mm
Horizontal milling table T-groove size	14 mm	Horizontal milling table T-groove number	3
Horizontal milling table T-groove spacing	95 mm	Min. clearance horizontal spindle - horizontal milling table	0 mm
Max. clearance horizontal spindle - horizontal milling table	400 mm	Horizontal milling table rotation	35 °
Horizontal milling table max. load bearing capacity	450 kg		
Horizontal spindle			
Horizontal spindle spindle chuck	ISO 50 DIN 2080	Horizontal spindle spindle chuck diameter	22 mm
Horizontal spindle gear	58 – 1800 min ⁻¹	Horizontal spindle number of gears	12
Horizontal spindle drive motor output	4 kW		
Cooling lubricant system			
Coolant pump(s) drive power	90 W		
Standards and certifications			
Standard	DIN EN 55011		
Travel			
Travel X axis manual	1290 mm	Travel Y axis manual	280 mm
Travel Z axis manual	400 mm	Travel X axis automatic	1210 mm
Travel Y axis automatic	200 mm	Travel Z axis automatic	320 mm
Min. distance spindle to column	250 mm	Max. distance spindle to column	750 mm
Vertical spindle			
Vertical spindle spindle chuck	ISO 50 DIN 2080	Vertical spindle swivel range milling cutter head X - Y plane	360 °
Vertical spindle swivel range milling cutter head Z - X plane	360 °	Vertical spindle speed range	60 – 1750 min ⁻¹
Vertical spindle number of gears	12	Vertical spindle tightening bar	M 24
Vertical spindle drive motor output normal operation	4 kW		
Feed			
Feed gears X axis	8 Steps	Feed gears Y axis	8 Steps
Feed gears Z axis	8 Steps		
Feed speed			
X axis feed speed	22 – 380 mm/min	Y axis feed speed	20 – 380 mm/min
Z axis feed speed	7 – 127 mm/min		
Feed motor drive power			
X axis feed drive motor output	1,1 kW	Y axis feed drive motor output	1,1 kW

Z axis feed drive motor output 1,1 kW

Electrical connections

Total rated value 9.2 kW

Accessories ▼



Parallel spacer kit BT 40

Article number ▼
3536191

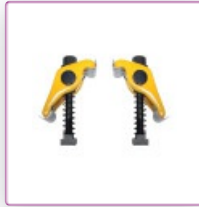
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Clamping tool kit SPW 12

Article number ▼
3352017

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Down device Table groove 14 mm / M 12

Article number ▼
3352031

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Morse taper SK50 B18 DIN2080

Article number ▼
3352067

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Hydraulic machine vice HMS 125

Robust design for milling, drilling and grinding

Article number ▼
3355127

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Precision machine vice FMS 150

Article number ▼
3354150

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Precision machine vice

FMSN 150

Pull-down mechanism for secure clamping of the workpiece

Article number ▼

3354130

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Milling machine vise

VMQ 125

Robust design for milling, drilling and grinding

Article number ▼

3354182

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Three axis vise

MV3-75

Horizontal swivel movement up to 90 °

Article number ▼

3354175

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Three axis vise

MV3-125

Horizontal swivel movement up to 90 °

Article number ▼

3354178

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Three axis vise

DAS 100

Article number ▼

3355500

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CNC hydraulic vice

HCV 105

With high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

Article number ▼

3536210

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CNC hydraulic vice

HCV 125

With high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

Article number ▼

3536214

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Precision machine vice

FMS 200

Article number ▼

3354200

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Two axis vise

ZAS 50

Article number ▼

3354170

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Horizontal-vertical rotary indexing table

RT 150

Quality round table made of high-quality Meehanite cast

Article number ▼

3356150

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Horizontal-vertical rotary indexing table

RT 200

Quality round table made of high-quality Meehanite cast

Article number ▼

3356200

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Horizontal-vertical rotary indexing table with 3-jaw chuck

RTE 165

Quality round table made of high-quality Meehanite cast

Article number ▼

3356365

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Horizontal-vertical rotary indexing table with 3-jaw chuck

RTU 165

Quality round table made of high-quality Meehanite cast

Article number ▼

3354165

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Universal dividing head

TA 125

Swiveling from -100 to +900

Article number ▼

3356125

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End mill set HSS, 12-piece

Article number ▼

3352250

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End mill set HSS, 20-piece

Article number ▼

3352255

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Twist Drill Set 25 pieces, 1 - 13 mm

Article number ▼

3201010

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Twist Drill Set
41-piece, 6 - 10 mm (0.1 mm rising)

Article number ▼
3201021

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Milling set
carbide, 18-piece

Article number ▼
3352118

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Milling set
radius, 9-piece

Article number ▼
3352116

OPTIMUM®
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Edge finder
Diameter 10 mm

Article number ▼
3351171

OPTIMUM®
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Boring Drill Bit Set
Boring Drill Bit Set ISO 50

Article number ▼
3352129

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Collet chuck set
ISO 50 / ER32 - M24 / BT50

Article number ▼
3352065

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Collet set
ER 32, Ø 1 - 16 mm

Article number ▼
3441122

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Stop angle
90 degrees

Article number ▼
3385052

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Tapping attachment
M5 - M12 / B16

Built-in fast reverse, immediately effective when changing the feed direction

Article number ▼
3352042

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T-nut
M 12/14 mm

Article number ▼
3353025

OPTIMUM®
MASCHINEN - GERMANY



Parallel spacer kit
20 parts

Article number ▼
3354001

OPTIMUM®
MASCHINEN - GERMANY



Precision machine foot
SEU1

Article number ▼
3352985

OPTIMUM®
MASCHINEN - GERMANY



Leveling plate
SE 2

Article number ▼
3381016

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