

## Universal milling machine

### OPTImill MT 100

Versatility and easy conversion. The universal milling machine for workshops

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY

#### Article number ▼

3336110

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines  
conventional » OPTImill MT 100



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,600 mm	Gross	1,390 kg	Delivery	Special transportation	DualUse	✘
Width	1,520 mm	Net	1,250 kg	Content	1 pc(s).	SCIP	n/a
Height	2,200 mm					SVHC	No



## Description ▼

- Versatile application
- Heavy, solid design made of high-quality Meehanite cast iron
- Vertical and horizontal milling position
- Robust machine construction
- Milling head can be swiveled and rotated at any spatial angle
- Smooth running due to polished gear wheels running in oil bath
- 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
- Sturdy, rectangular guideways in the Y and Z axes
- 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
- Digital position indicator DPA 2000
- Feed motor with fixed steps
- Table feed X and Y axis  
Z-axis with electric table height adjustment

## Delivery content ▼

- Milling spindle Horizontal milling ISO 40 Ø 32 mm
- Milling mandrel ISO 40 Ø 32 mm
- operating tool

## Media informations ▼



### Horizontal milling position

- With counterholder and mounting for disc milling cutter
- Adjustable slide bearing

### Vertical milling position

- e.g. for milling wedges along the X-axis



**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.	1540 mm	Width/depth (product) approx.	1355 mm
Height (product) approx.	1650 mm	Net weight approx.	1300 kg
Drilling/milling output			
Max. size milling head	85 mm	Max. size shaft milling cutter	20 mm
Electrical Data			
Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	1120 mm	Horizontal milling table width	260 mm
Min. clearance vertical spindle - horizontal milling table	90 mm	Max. clearance vertical spindle - horizontal milling table	520 mm
Horizontal milling table T-groove size	14 mm	Horizontal milling table T-groove number	3
Horizontal milling table T-groove spacing	63 mm	Horizontal milling table max. load bearing capacity	350 kg
Cooling lubricant system			
Coolant pump(s) drive power	40 W		
Travel			
Travel X axis manual	600 mm	Travel Y axis manual	270 mm
Travel Z axis manual	380 mm	Travel X axis automatic	480 mm
Travel Z axis automatic	340 mm		
Vertical spindle			
Vertical spindle spindle chuck	ISO 40 DIN 2080	Vertical spindle swivel range milling cutter head X - Y plane	360 °
		Vertical spindle speed range	45 – 1600 min <sup>-1</sup>

Vertical spindle swivel range milling cutter head Z - X plane	360 °		
Vertical spindle number of gears	11	Vertical spindle tightening bar	M16
Vertical spindle drive motor output normal operation	2,2 kW		
<b>Feed speed</b>			
X axis feed speed	24 – 402 mm/min	Z axis feed speed	24 – 402 mm/min
<b>Feed motor drive power</b>			
X axis feed drive motor output	0.37 kW	Y axis feed drive motor output	0.37 kW
Z axis feed drive motor output	0,75 kW		
<b>Electrical connections</b>			
Total rated value	3.36 kW		

## Accessories ▼



### Parallel spacer kit

**BT 40**

**Article number ▼**

3536191

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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

**OPTIMUM**<sup>®</sup>  
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### Clamping tool kit

SPW 12

Article number ▼

3352017

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### Mandrel for drill chuck

cone outside ISO 40 / M16 / B16

Article number ▼

3352070

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### Collet chuck set

ISO 40 / ER32 - M16 / BT40

Article number ▼

3352056

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### Boring Drill Bit Set

Boring Drill Bit Set ISO 40

Article number ▼

3352128

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### Copy and face cutter head

Shaft ISO 40

Article number ▼

3350216

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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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### 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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**Twist drill HSS with Morse taper**  
MT 3

**Article number** ▼  
3051003

**OPTIMUM®**  
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**Twist Drill Set**  
25 pieces, 1 - 13 mm

**Article number** ▼  
3201010

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3201021

**OPTIMUM®**  
MASCHINEN - GERMANY



**Milling set**  
carbide, 18-piece

**Article number** ▼  
3352118

**OPTIMUM®**  
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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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**Reducing sleeve**  
MK3-MK2 / M12

Article number ▼  
3350313

**OPTIMUM®**  
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**Collet set**  
ER 32, Ø 1 - 16 mm

Article number ▼  
3441122

**OPTIMUM®**  
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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

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**Parallel spacer kit**  
20 parts

**Article number** ▼  
3354001

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**Precision machine foot**  
SEU1

**Article number** ▼  
3352985

**OPTIMUM**<sup>®</sup>  
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**Leveling plate**  
SE 2

**Article number** ▼  
3381016

**OPTIMUM**<sup>®</sup>  
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