

## Universal milling machine

### OPTImill MT 230S

Versatility and easy conversion. The universal milling machine with digital 3-axis position indicator for workshops.

#### Article number ▼

3344125

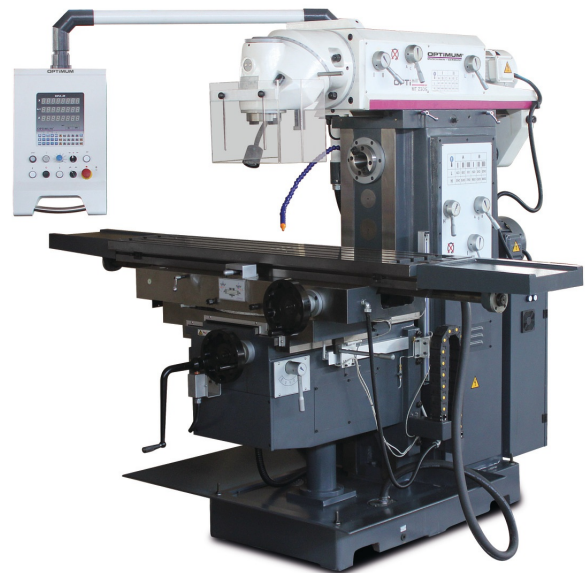
#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines  
conventional » OPTImill MT 230S

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



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	2,210 mm	Gross	3,080 kg	Delivery	Special transportation	DualUse	✘
Width	2,160 mm	Net	2,880 kg	Content	1 pc(s).	SCIP	n/a
Height	2,200 mm					SVHC	No



## Description ▼

- Versatile application
- Robust machine construction
- Smooth running due to polished gear wheels running in oil bath
- Heavy, solid design made of high-quality Meehanite cast iron
- All guides are hardened and adjustable by means of wedges
- Central lubrication
- Large sized handwheels with scale
- LED machine lamp
- Coolant system
- Easy operation of the switching elements
- Stable flat bed guide in the Y and Z axis
- Table feed X, Y and Z axis automatically
- Digital position indicator DPA 21
- Feed system can be controlled in fixed stages by means of a servomotor
- Decoupled handwheels
- Massive and large dimensioned XY stage, precisely surface-finished with adjustable wedges and adjustable end stops
- Horizontal milling position
- Counterhold Horizontal milling ready to hand attached to the back of the machine
- Milling head with two axes of rotation, thus pivotable and rotatable in every spatial angle

## OPTI control panel:

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

## Delivery content ▼

- Horizontal milling spindle with counter bearing, holder
- side milling cutter Ø 32 mm, Ø 27 mm
- Adapter ISO 50 ( 7:24 ) / MK4
- Tightening rod horizontal and vertical M24
- Operating tool

## Media informations ▼



MT 230S



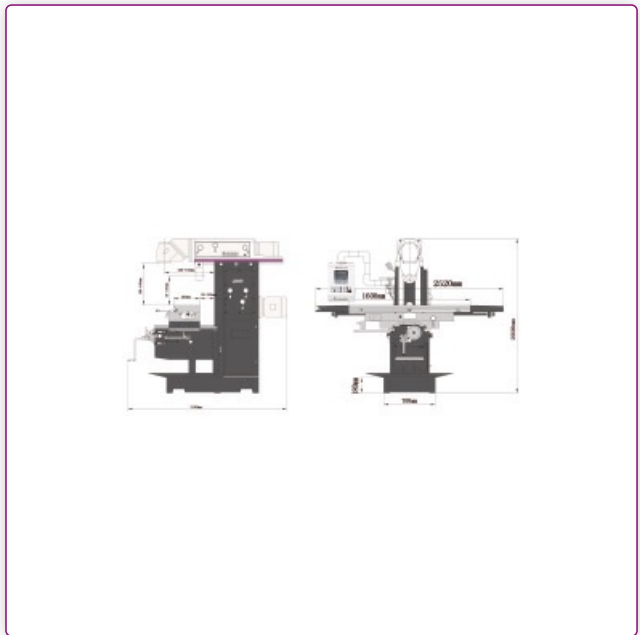
**Horizontal milling position:**

- For working in the horizontal milling position with an adapter and a disc milling adapter
- Adjustable plain bearing



**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



**Technical data** ▾

Dimensions and weights			
Length (product) approx.	2520 mm	Width/depth (product) approx.	2160 mm
Height (product) approx.	2005 mm	Net weight approx.	2800 kg
Drilling/milling output			

Max. size milling head	160 mm	Max. size shaft milling cutter	25 mm
<b>Fast motion speed</b>			
Fast motion speed X axis	1200 mm/min	Fast motion speed Y axis	800 mm/min
Fast motion speed Z axis	600 mm/min		
<b>Electrical Data</b>			
Supply voltage	400 V	Mains frequency	50 Hz
<b>Milling table horizontal</b>			
Horizontal milling table length	1600 mm	Horizontal milling table width	360 mm
Min. clearance vertical spindle - horizontal milling table	190 mm	Max. clearance vertical spindle - horizontal milling table	590 mm
Horizontal milling table T-groove size	18 mm	Horizontal milling table T-groove number	3
Horizontal milling table T-groove spacing	80 mm	Min. clearance horizontal spindle - horizontal milling table	10 mm
Max. clearance horizontal spindle - horizontal milling table	410 mm	Horizontal milling table rotation	35 °
Horizontal milling table max. load bearing capacity	400 kg		
<b>Horizontal spindle</b>			
Horizontal spindle spindle chuck	ISO 50 DIN 2080	Horizontal spindle gear	60 – 1800 min <sup>-1</sup>
Horizontal spindle number of gears	12 Steps	Horizontal spindle drive motor output	5.5 kW
<b>Cooling lubricant system</b>			
Coolant pump(s) drive power	90 W		
<b>Travel</b>			
Travel X axis manual	1300 mm	Travel Y axis manual	300 mm
Travel Z axis manual	400 mm	Travel X axis automatic	1220 mm
Travel Y axis automatic	220 mm	Travel Z axis automatic	320 mm
<b>Vertical spindle</b>			
Vertical spindle reach	260 – 810 mm	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 <sup>-1</sup>	Vertical spindle number of gears	12
Vertical spindle tightening bar	M 24	Vertical spindle drive motor output normal operation	4 kW
<b>Feed</b>			
Feed gears X axis	infinitely variable	Feed gears Y axis	infinitely variable
Feed gears Z axis	infinitely variable		
<b>Feed speed</b>			
X axis feed speed	30 – 750 mm/min	Y axis feed speed	20 – 500 mm/min
Z axis feed speed	15 – 375 mm/min		
<b>Electrical connections</b>			
Total rated value	12 kW		

## Accessories ▼



**Parallel spacer kit**  
**BT 40**

**Article number** ▼  
3536191

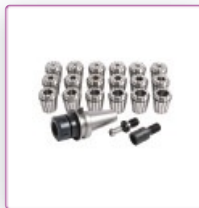
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**Clamping tool kit**  
**SPW 12**

**Article number** ▼  
3352017

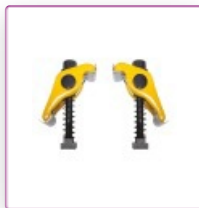
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**Collet chuck set**  
**ISO 50 / ER32 - M24 / BT50**

**Article number** ▼  
3352065

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**Down device**  
**Table groove 18 mm / M 16**

**Article number** ▼  
3352032

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**Morse taper**  
**SK50 B18 DIN2080**

**Article number** ▼  
3352067

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**Boring Drill Bit Set**  
**Boring Drill Bit Set ISO 50**

**Article number** ▼  
3352129

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### Precision machine vice

**FMS 200**

Article number ▼

3354200

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### Hydraulic machine vice

**HMS 125**

Robust design for milling, drilling and grinding

Article number ▼

3355127

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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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### Two axis vise

**ZAS 50**

Article number ▼

3354170

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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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### 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

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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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**Parallel spacer kit**  
20 parts

Article number ▼  
3354001

**OPTIMUM®**  
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**Clamping tool kit**  
**SPW 16**

**Article number** ▼  
3352019

**OPTIMUM®**  
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**T-nut**  
**M 16/18 mm**

**Article number** ▼  
3353028

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**Precision machine foot**  
**SEU1**

**Article number** ▼  
3352985

**OPTIMUM®**  
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**Leveling plate**  
**SE 2**

**Article number** ▼  
3381016

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