

## Precision drilling-milling machine

### OPTImill MB 4

Universal precision drilling-milling machine with two-stage drive motor with gearbox for optimal power transmission

#### Article number ▼

3338451

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines  
conventional » OPTImill MB 4

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



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	850 mm	Gross	350 kg	Delivery	Carrier	DualUse	✘
Width	760 mm	Net	320 kg	Content	1 pc(s).	SCIP	n/a
Height	1,160 mm					SVHC	No



## Description ▼

- Heavy, solid cast design
  - Two-stage quality industrial electric motor
  - Very smooth running due to ground gear wheels running in an oil bath
  - Massive and large-dimensioned cross table, precisely surface-machined with T-slots and adjustable V-ledges
  - Drilling depth stop
  - Thread cutting function
  - Manual quill feed with fine feed
  - Play of the feed spindles can be set and readjusted
  - User-friendly control panel with emergency stop button
  - Column with hand-scraped dovetail guide
  - Height-adjustable, large protective screen with microswitch
- Large speed range of 95 - 3,200 rpm<sup>-1</sup> due to 12 selectable speed levels

## Delivery content ▼

- Adapter MK4/MK 3
- Pull rod M 16
- Operating tool

## Media informations ▼



### Tapping mode

- Motor is activated by moving the quill lever downwards
- When the set depth is reached, the direction of rotation of the spindle is reversed
- The tap again rotates out of the workpiece
- When the quill is completely retracted again to the switching point, the rotation of the spindle is stopped.



**Gear head**

- The drilling/milling head can be tilted 45° to the left and right.



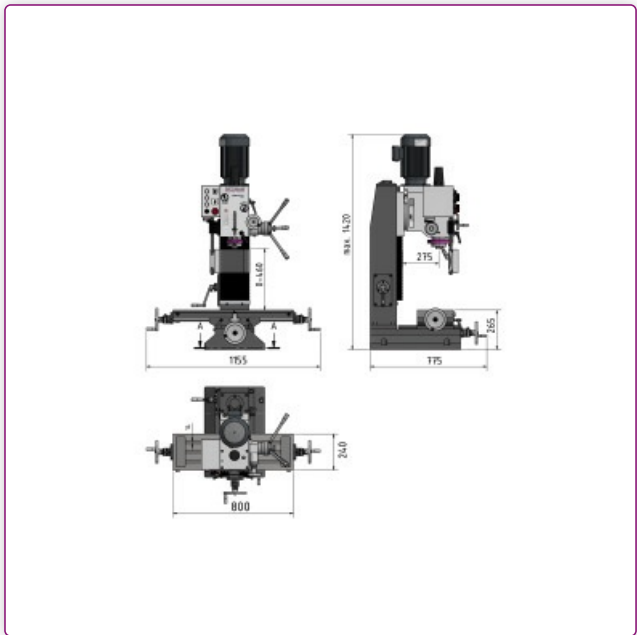
**Feed**

- Manual spindle sleeve feed with the fine feed unit



**Operating and display elements**

- User-friendly and clear control panel with emergency stop pushbutton



**Technical data** ▾

Dimensions and weights			
Length (product) approx.	1155 mm	Width/depth (product) approx.	775 mm
Height (product) approx.	1420 mm	Net weight approx.	320 kg
Drilling/milling output			
Drilling performance steel (S235JR)	32 mm	Max. size milling head	63 mm
Max. size shaft milling cutter	28 mm	Continuous drilling performance steel (S235JR)	28 mm

Electrical Data			
Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	800 mm	Horizontal milling table width	240 mm
Max. clearance vertical spindle - horizontal milling table	460 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	80 kg		
Travel			
Travel X axis manual	450 mm	Travel Y axis manual	195 mm
Travel Z axis manual	430 mm		
Vertical spindle			
Vertical spindle reach	275 mm	Vertical spindle spindle chuck	MT 4
Vertical spindle speed range	95 – 3200 min <sup>-1</sup>	Vertical spindle swivel range milling cutter head Z - X plane	± 45 °
Vertical spindle quill diameter	75 mm	Vertical spindle quill stroke	120 mm
Vertical spindle tightening bar	M16	Vertical spindle drive motor output normal operation	1,1 / 1,5 kW

## Accessories ▼



### Parallel spacer kit

**BT 40**

Article number ▼

3536191

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### Horizontal-vertical rotary indexing table

**RT 100**

Quality round table made of high-quality Meehanite cast

Article number ▼

3356110

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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 with 3-jaw chuck

RTE 165

Quality round table made of high-quality Meehanite cast

Article number ▼

3356365

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### Tailstock

RST 1

Article number ▼

3356155

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### Clamping tool kit

SPW 12

Article number ▼

3352017

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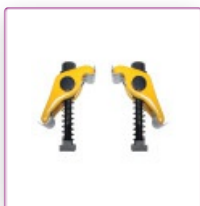
### T-nut

M 12/14 mm

Article number ▼

3353025

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



### Down device

Table groove 14 mm / M 12

Article number ▼

3352031

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



### End mill set

HSS, 12-piece

Article number ▼

3352250

**OPTIMUM**<sup>®</sup>  
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**End mill set**  
HSS, 20-piece

Article number ▼  
3352255

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MASCHINEN - GERMANY



**Copy and face cutter head**  
Shank MK 4

Article number ▼  
3350214

**OPTIMUM®**  
MASCHINEN - GERMANY



**Boring head set**  
MT 4

Article number ▼  
3352125

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**Mandrel for drill chuck**  
Cone outside MK 4 / M16 / B16

Article number ▼  
3350304

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MASCHINEN - GERMANY



**Collet chuck set**  
MK 4 / ER 32 - M16

Article number ▼  
3352094

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**Tapping chuck with inserts**  
MK 4; M3 - M12

Article number ▼  
3050709

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**Tapping chuck with inserts**  
MK 4; M8 - M20

Article number ▼  
3050710

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**Substructure**  
MSM 3 650 x 550 x 750 mm

Article number ▼  
3353014

**OPTIMUM®**  
MASCHINEN - GERMANY



**Vibration damper machine foot**  
SE 55

Article number ▼  
3352981

**OPTIMUM®**  
MASCHINEN - GERMANY



**Router table feed**  
V 99S

Article number ▼  
3352021

**OPTIMUM®**  
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**Mounting kit**  
V 99S, X-axis BF30/MH35

Article number ▼  
3352035

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**Universal coolant device**  
230 V

Article number ▼  
3351999

**OPTIMUM®**  
MASCHINEN - GERMANY



**Cooling lubricant nebulizer**  
MMC1

Article number ▼  
3356663

**OPTIMUM®**  
MASCHINEN - GERMANY



**Coolant hoses with magnetic base**  
KMS 2

Article number ▼  
3356660

**OPTIMUM®**  
MASCHINEN - GERMANY



### Precision machine vice

**FMS 100**

**Article number** ▼

3354100

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### Precision machine vice

**FMS 125**

**Article number** ▼

3354125

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### Precision machine vice

**FMSN 125**

Pull-down mechanism for secure clamping of the workpiece

**Article number** ▼

3354120

**OPTIMUM®**  
MASCHINEN - GERMANY



### Milling machine vise

**VMQ 100**

Robust design for milling, drilling and grinding

**Article number** ▼

3354181

**OPTIMUM®**  
MASCHINEN - GERMANY



### Three axis vise

**MV3-75**

Horizontal swivel movement up to 90 °

**Article number** ▼

3354175

**OPTIMUM®**  
MASCHINEN - GERMANY



### Three axis vise

**DAS 100**

**Article number** ▼

3355500

**OPTIMUM®**  
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### Two axis vise

**ZAS 50**

**Article number** ▼

3354170

**OPTIMUM®**  
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### Hydraulic milling machine vice

**HMS 100**

Robust design for milling, drilling and grinding

**Article number** ▼

3355100

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



**Edge finder**  
Diameter 10 mm

**Article number** ▼  
3351171

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



**Precision quick-action drill chuck**  
1-10 mm, B16

**Article number** ▼  
3050610

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



**Keyless drill chuck**  
DKC13 1-13 mm

**Article number** ▼  
3050632

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



**Keyless drill chuck**  
DKC16 1-16 mm

**Article number** ▼  
3050633

**OPTIMUM**<sup>®</sup>  
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**Reducing sleeve**  
MK4-MK3 / M16

**Article number** ▼  
3350314

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MASCHINEN - GERMANY



**Collet set**  
ER 32, Ø 1 - 16 mm

**Article number** ▼  
3441122

**OPTIMUM®**  
MASCHINEN - GERMANY



**Leveling plate**  
SE 1

**Article number** ▼  
3381012

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**Stop angle**  
90 degrees

**Article number** ▼  
3385052

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**Prism**  
WP 30

**Article number** ▼  
3352195

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**Workpiece support**  
WPS-1

Adjustment range 40 - 50 mm  
**Article number** ▼  
3354261

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**Workpiece support**  
WPS-3

Adjustment range 90 - 140 mm  
**Article number** ▼  
3354263

**OPTIMUM®**  
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**Parallel spacer kit**  
**20 parts**

**Article number** ▼  
3354001