

Drilling-milling machine

OPTImill MB 4P

Universal drilling and milling machines with digital position indicator DRO 5 and cast iron machine base

Article number ▼

3338460

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MB 4P / MB 4PV

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,240 mm	Gross	500 kg	Delivery	Carrier	DualUse	✘
Width	950 mm	Net	400 kg	Content	1 pc(s).	SCIP	n/a
Height	2,160 mm					SVHC	No



Description ▼

- Heavy, solid cast execution
- Smooth running due to polished gear wheels running in oil bath
- Forward / reverse operation
- Automatic quill feed with manual fine feed
- Motorized Z-axis positioning
- Motorized table feed of the X-axis
- Coolant system
- Machine lamp
- Gear head $\pm 45^\circ$ swiveling
- Massive dovetail guide of the column, hand-scraped, for maximum stability and maximum precision
- Height-adjustable, large-dimensioned protective screen with microswitch
- Depth stop
- Digital position indicator DRO 5
- Drilling / tapping function
- Massive and large-dimensioned XY stage, precisely surface-finished with T-slots and adjustable wedges
- Massive machine base made of cast iron with chip channel

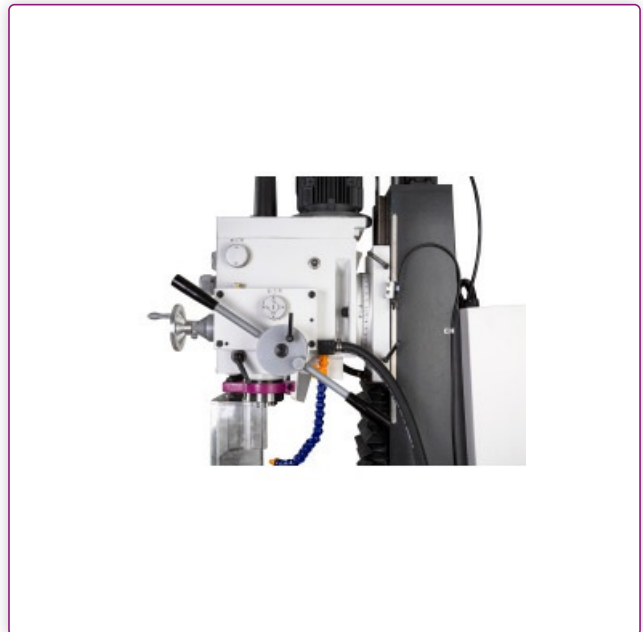
MB 4P:

- Two-stage quality industrial electric motor
- Large speed range of 95 - 3,200 rpm through 12 switchable speeds

Delivery content ▼

- substructure
- Morse cone MK 3
- Adapter MK 3 - MK 4
- Pulling rod M 16
- operating tool

Media informations ▼



Automatic spindle sleeve feed

- The sleeve moves downwards at the set feed speed and switches off again at the set drilling depth on the scale ring. The sleeve then moves back to its starting position



X-axis

- Motorized positioning of the X-axis with rapid traverse



Digital position indicator DRO 5

- Four-line LCD display
- User friendly menu navigation

Technical data

Dimensions and weights			
Length (product) approx.	1600 mm	Width/depth (product) approx.	930 mm
Height (product) approx.	2110 mm	Net weight approx.	495 kg
Drilling/milling output			
Max. size milling head	63 mm	Drilling performance steel (S235JR)	32 mm
Max. size shaft milling cutter	28 mm	Continuous drilling performance steel (S235JR)	28 mm
Electrical Data			
Drive motor output	1,1 / 1,5 kW	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	420 mm	Horizontal milling table T-groove size	14 mm
Horizontal milling table T-groove number	3	Horizontal milling table T-groove spacing	80 mm
Cooling lubricant system			
Coolant pump(s) drive power	100 W		
Standards and certifications			
Standard	DIN EN 55011		
Travel			
Travel X axis manual	560 mm	Travel Y axis manual	195 mm
Travel Z axis manual	350 mm	Travel X axis automatic	480 mm
Vertical spindle			
Vertical spindle reach	258 mm	Vertical spindle spindle chuck	MT 4
Vertical spindle speed range	95 – 3200 min ⁻¹	Vertical spindle swivel range milling cutter head Z - X plane	± 45 °
Vertical spindle number of gears	2 x 6	Vertical spindle quill diameter	75 mm

Accessories ▼**Parallel spacer kit**
20 parts**Article number** ▼
3354001**OPTIMUM**[®]
MASCHINEN - GERMANY**Parallel spacer kit**
BT 40**Article number** ▼
3536191**OPTIMUM**[®]
MASCHINEN - GERMANY**Horizontal-vertical rotary indexing table**
RT 150

Quality round table made of high-quality Meehanite cast

Article number ▼
3356150**OPTIMUM**[®]
MASCHINEN - GERMANY**Horizontal-vertical rotary indexing table with 3-jaw chuck**
RTE 165

Quality round table made of high-quality Meehanite cast

Article number ▼
3356365**OPTIMUM**[®]
MASCHINEN - GERMANY**Clamping tool kit**
SPW 12**Article number** ▼
3352017**OPTIMUM**[®]
MASCHINEN - GERMANY**End mill set**
HSS, 12-piece**Article number** ▼
3352250**OPTIMUM**[®]
MASCHINEN - GERMANY



End mill set
HSS, 20-piece

Article number ▼
3352255

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Copy and face cutter head
Shank MK 4

Article number ▼
3350214

OPTIMUM®
MASCHINEN - GERMANY



Boring head set
MT 4

Article number ▼
3352125

OPTIMUM®
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Mandrel for drill chuck
Cone outside MK 4 / M16 / B16

Article number ▼
3350304

OPTIMUM®
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Collet chuck set
MK 4 / ER 32 - M16

Article number ▼
3352094

OPTIMUM®
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Tapping chuck with inserts
MK 4; M3 - M12

Article number ▼
3050709

OPTIMUM®
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Tapping chuck with inserts
MK 4; M8 - M20

Article number ▼
3050710

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Precision machine vice

FMS 100

Article number ▼

3354100

OPTIMUM®
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Precision machine vice

FMS 125

Article number ▼

3354125

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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Precision machine vice

FMSN 125

Pull-down mechanism for secure clamping of the workpiece

Article number ▼

3354120

OPTIMUM®
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Milling machine vise

VMQ 100

Robust design for milling, drilling and grinding

Article number ▼

3354181

OPTIMUM®
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Three axis vise

MV3-75

Horizontal swivel movement up to 90 °

Article number ▼

3354175

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Two axis vise
ZAS 50

Article number ▼
3354170

OPTIMUM®
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Three axis vise
DAS 100

Article number ▼
3355500

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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 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®
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Edge finder
Diameter 10 mm

Article number ▼
3351171

OPTIMUM®
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Precision quick-action drill chuck
1-10 mm, B16

Article number ▼
3050610

OPTIMUM®
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Keyless drill chuck
DKC13 1-13 mm

Article number ▼
3050632

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Keyless drill chuck
DKC16 1-16 mm

Article number ▼
3050633

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Reducing sleeve
MK4-MK3 / M16

Article number ▼
3350314

OPTIMUM[®]
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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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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

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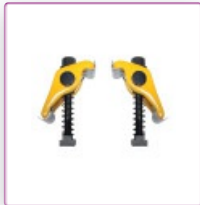
T-nut

M 12/14 mm

Article number ▼

3353025

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Down device

Table groove 14 mm / M 12

Article number ▼

3352031

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Vibration damper machine foot

SE 55

Article number ▼

3352981

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Leveling plate

SE 1

Article number ▼

3381012

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