

## Drilling-milling machine

### OPTImill MF 4-B

Multifunctional drilling-milling machines with mechanically steplessly adjustable drive

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

#### Article number ▼

3348340

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines  
conventional » OPTImill MF 2-B / MF 4-B



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,520 mm	Gross	1,320 kg	Delivery	Special transportation	DualUse	✘
Width	1,550 mm	Net	1,260 kg	Content	1 pc(s).	SCIP	n/a
Height	2,080 mm					SVHC	No



## Description ▼

- Solid design made of high-quality meehanite casting
- High concentricity due to tapered roller bearing, measured smaller than 0.01 mm in the quill
- Stepless speed control
- Right / left rotation for thread cutting
- X- and Z-axis with adjustable 55° dovetail guide
- Y-axis with flat guide
- Drilling-milling head tiltable vertically  $\pm 45^\circ$
- Swivel range horizontally  $\pm 90^\circ$
- Coolant system
- Right and left rotation
- Automatic quill feed, 3-stage 0.04 - 0.15 mm/rev
- Motor feed in the X, Y and Z axes
- Precision micro feed
- Milling spindle with precision bearing
- Mechanical spindle brake
- Drilling depth scale and stroke
- Cross table with T-slots and coolant channel
- Central lubrication
- 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

## MF 4-B:

- Load capacity cross table 300 kg
- Large travel: X / Y / Z axis 740 mm / 330 mm / 320 mm

## Delivery content ▼

- operating tool

## Media informations ▼



**Milling head**

- The spindle head can be swiveled forward or backward  $45^\circ$  and tilted  $90^\circ$  to the right or left



**Operating panel**

- Integrated control panel
- New - now with integrated digital position indicator DPA 21
- Swiveling



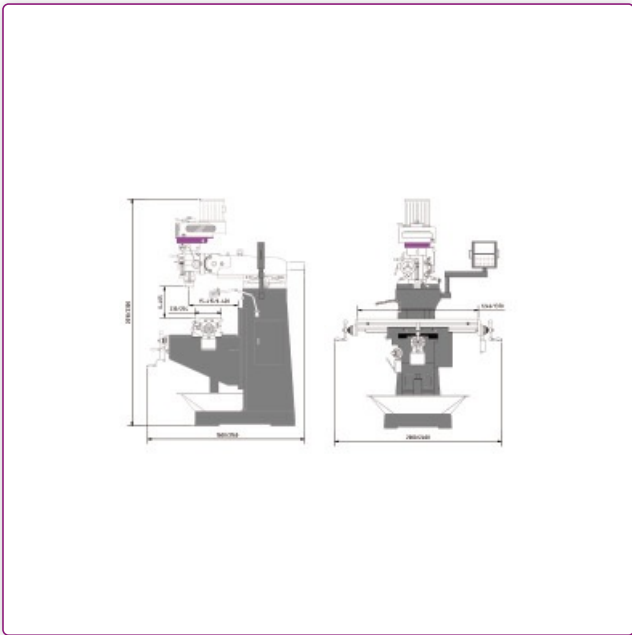
**Central lubrication**

- Reduces maintenance requirements
- Reduced wear
- Increases the effectiveness and service life of the machine



**Feed**

Motorized feed in the X- Y- and Z-axis



**Technical data** ▼

Dimensions and weights			
Length (product) approx.	2400 mm	Width/depth (product) approx.	2160 mm
Height (product) approx.	2300 mm	Net weight approx.	1260 kg
Drilling/milling head			
Drill-mill head tilt range	vertical $\pm 45^\circ$	Mill head swivel range	horizontal $\pm 90^\circ$
Drilling/milling output			
Max. size milling head	76 mm	Drilling performance steel (S235JR)	24 mm
Max. size shaft milling cutter	25 mm		

		Continuous drilling performance steel (S235JR)	20 mm
<b>Electrical Data</b>			
Supply voltage	400 V	Mains frequency	50 Hz
<b>Milling table horizontal</b>			
Horizontal milling table length	254 mm	Horizontal milling table width	1370 mm
Max. clearance vertical spindle - horizontal milling table	405 mm	Horizontal milling table T-groove size	16 mm
Horizontal milling table T-groove number	3	Horizontal milling table T-groove spacing	63 mm
Horizontal milling table max. load bearing capacity	300 kg		
<b>Cooling lubricant system</b>			
Coolant pump(s) drive power	90 W		
<b>Standards and certifications</b>			
Standard	DIN EN 55011		
<b>Travel</b>			
Travel X axis manual	820 mm	Travel Y axis manual	410 mm
Travel Z axis manual	400 mm	Travel X axis automatic	740 mm
Travel Y axis automatic	330 mm	Travel Z axis automatic	320 mm
<b>Vertical spindle</b>			
Vertical spindle reach	0 – 420 mm	Vertical spindle spindle chuck	ISO 40 DIN 2080
Vertical spindle speed range	60 – 4200 min <sup>-1</sup>	Vertical spindle number of gears	2
Vertical spindle speed control	mechanically stepless	Vertical spindle quill diameter	86 mm
Vertical spindle quill stroke	127 mm	Vertical spindle quill feed	0.04 / 0.08 / 0.15 mm/rev
Vertical spindle milling head travel Y axis	470 mm	Vertical spindle drive motor output normal operation	2,2 kW
<b>Electrical connections</b>			
Total rated value	3 kW		

## Accessories ▼



### Parallel spacer kit BT 40

Article number ▼  
3536191

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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

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



### 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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### Clamping tool kit

**SPW 14**

**Article number** ▼

3352018

**OPTIMUM**<sup>®</sup>  
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### 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

**OPTIMUM**<sup>®</sup>  
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**Precision quick-action drill chuck**  
1-10 mm, B16

**Article number** ▼  
3050610

**OPTIMUM**<sup>®</sup>  
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**Mandrel for drill chuck**  
cone outside ISO 40 / M16 / B16

**Article number** ▼  
3352070

**OPTIMUM**<sup>®</sup>  
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**Collet chuck set**  
ISO 40 / ER32 - M16 / BT40

**Article number** ▼  
3352056

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**Copy and face cutter head**  
Shaft ISO 40

**Article number** ▼  
3350216

**OPTIMUM**<sup>®</sup>  
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**Boring Drill Bit Set**  
Boring Drill Bit Set ISO 40

**Article number** ▼  
3352128

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**Universal pneumatic tool clamping system**  
ISO 40

**Article number** ▼  
3352394

**OPTIMUM**<sup>®</sup>  
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**Factory assembly**  
clamping system

**Article number** ▼  
9000490

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**Two axis vise**  
**ZAS 50**

**Article number** ▼  
3354170

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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

**OPTIMUM®**  
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**Milling machine vise**  
**VMQ 150**

Robust design for milling, drilling and grinding  
**Article number** ▼  
3354183

**OPTIMUM®**  
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**Three axis vise**  
**MV3-75**

Horizontal swivel movement up to 90 °  
**Article number** ▼  
3354175

**OPTIMUM®**  
MASCHINEN - GERMANY



**Three axis vise**  
**MV3-125**

Horizontal swivel movement up to 90 °  
**Article number** ▼  
3354178

**OPTIMUM®**  
MASCHINEN - GERMANY



**Three axis vise**  
**DAS 100**

**Article number** ▼  
3355500

**OPTIMUM**<sup>®</sup>  
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**Hydraulic machine vice**  
**HMS 125**

Robust design for milling, drilling and grinding

**Article number** ▼  
3355127

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**Milling machine vise**  
**VMQ 125**

Robust design for milling, drilling and grinding

**Article number** ▼  
3354182

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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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**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

**OPTIMUM®**  
MASCHINEN - GERMANY



**Milling set**  
radius, 9-piece

Article number ▼  
3352116

**OPTIMUM®**  
MASCHINEN - GERMANY



**Edge finder**  
Diameter 10 mm

Article number ▼  
3351171

**OPTIMUM®**  
MASCHINEN - GERMANY



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

Article number ▼  
3050632

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3050633

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3441122

**OPTIMUM®**  
MASCHINEN - GERMANY



**Stop angle**  
**90 degrees**

**Article number** ▼  
3385052

**OPTIMUM®**  
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**Tapping attachment**  
**M5 - M12 / B16**

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

**Article number** ▼  
3352042

**OPTIMUM®**  
MASCHINEN - GERMANY



**T-nut**  
**M 14/16 mm**

**Article number** ▼  
3353026

**OPTIMUM®**  
MASCHINEN - GERMANY



**Parallel spacer kit**  
**20 parts**

**Article number** ▼  
3354001

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3352985

**OPTIMUM®**  
MASCHINEN - GERMANY



**Vibration damper machine foot**  
**SE 85**

**Article number** ▼  
3352982

**OPTIMUM®**  
MASCHINEN - GERMANY



**Leveling plate**  
**SE 2**

**Article number** ▼  
3381016

**OPTIMUM®**  
MASCHINEN - GERMANY