

Drilling-milling machine

OPTImill MF 2-B

Multifunctional drilling-milling machines with mechanically steplessly adjustable drive

Article number ▼

3348330

Brand ▼

Optimum

Catalog directory ▼

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

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,250 mm	Gross	1,060 kg	Delivery	Carrier	DualUse	✘
Width	1,400 mm	Net	1,000 kg	Content	1 pc(s).	SCIP	n/a
Height	1,900 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
- Mechanical 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
- 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

Delivery content ▼

- operating tool

Media informations ▼



Milling head

- The spindle head can be swiveled forward or backward 45° and tilted 90° to the right or left



Operating panel

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



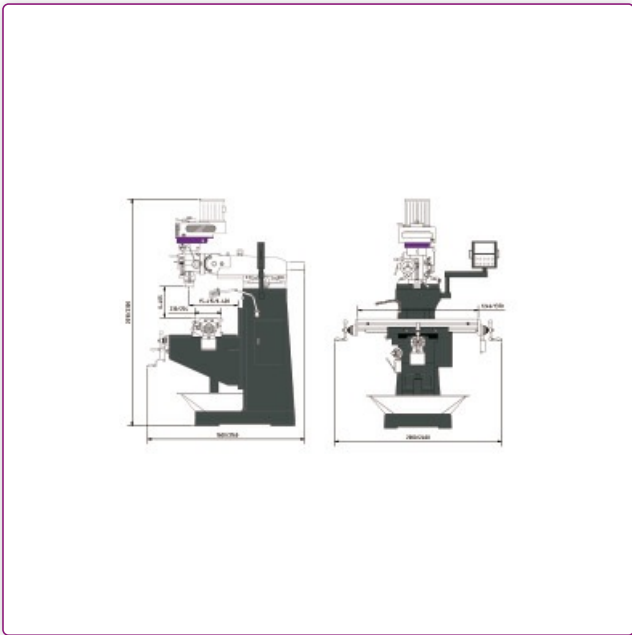
Central lubrication

- 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.	2000 mm	Width/depth (product) approx.	1600 mm
Height (product) approx.	2010 mm	Net weight approx.	1000 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
Electrical Data			
Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	230 mm	Horizontal milling table width	1246 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	200 kg		
Cooling lubricant system			
Coolant pump(s) drive power	90 W		
Standards and certifications			
Standard	DIN EN 55011		
Travel			
Travel X axis manual	690 mm	Travel Y axis manual	310 mm
Travel Z axis manual	390 mm	Travel X axis automatic	610 mm
Travel Y axis automatic	230 mm	Travel Z axis automatic	310 mm
Vertical spindle			
Vertical spindle reach	15 – 415 mm	Vertical spindle spindle chuck	ISO 40 DIN 2080
Vertical spindle speed range	60 – 4200 min ⁻¹	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	312 mm	Vertical spindle drive motor output normal operation	2,2 kW
Electrical connections			
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

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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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Clamping tool kit

SPW 14

Article number ▼

3352018

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

Article number ▼
3050610

OPTIMUM®
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Mandrel for drill chuck
cone outside ISO 40 / M16 / B16

Article number ▼
3352070

OPTIMUM®
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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

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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

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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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Hydraulic machine vice
HMS 125

Robust design for milling, drilling and grinding

Article number ▼
3355127

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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

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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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Milling machine vise

VMQ 100

Robust design for milling, drilling and grinding

Article number ▼

3354181

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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®
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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®
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®
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Collet set
ER 32, Ø 1 - 16 mm

Article number ▼
3441122

OPTIMUM®
MASCHINEN - GERMANY



Stop angle
90 degrees

Article number ▼
3385052

OPTIMUM®
MASCHINEN - GERMANY



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

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Parallel spacer kit
20 parts

Article number ▼
3354001

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Precision machine foot
SEU1

Article number ▼
3352985

OPTIMUM®
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Vibration damper machine foot
SE 85

Article number ▼
3352982

OPTIMUM®
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Leveling plate
SE 2

Article number ▼
3381016

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