

## Drilling-milling machine

### OPTImill MF 4V

Multifunctional drilling and milling machines for professional use.  
Electronically stepless drive with frequency converter "made in EU" and digital  
3-axis position indicator DPA 21

#### Article number ▼

3336050

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines  
conventional » OPTImill MF 2V / MF 4V

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



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,650 mm	Gross	1,250 kg	Delivery	Carrier	DualUse	✘
Width	1,800 mm	Net	1,150 kg	Content	1 pc(s).	SCIP	n/a
Height	1,980 mm					SVHC	No



## Description ▼

- Heavy, solid design made of high-quality Meehanite cast iron
- Drilling-milling head tiltable by  $\pm 45^\circ$
- Drilling-milling head swiveling  $\pm 90^\circ$
- High concentricity due to tapered roller bearing, measured smaller than 0.01 mm in the quill
- Automatic quill feed
- Adjustable drilling depth stop with millimeter scale, front readable
- Right / left rotation for thread cutting
- X- and Z-axis with adjustable dovetail guide
- Coolant system
- 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 2V:

- Y-axis with adjustable dovetail guide

### MF 4V:

- Y-axis with flat guide
- Motorized table height adjustment (Z-axis)

### Equipment details:

#### Siemens SINAMICS G110M converter

- Especially EMV compatible due to compact design
- Internal security features
- Made in EU

#### Optional tool clamping system (Article No.: 3352394)

#### OPTI control panel:

- Integrated control panel
- Integrated **Digital position indicator DPA 21** with speed display

## Delivery content ▼

- operating tool

## Media informations ▼



## Technical data ▼

Dimensions and weights			
Length (product) approx.	1500 mm	Width/depth (product) approx.	1450 mm
Height (product) approx.	2200 mm	Net weight approx.	1150 kg
Drilling/milling head			
Mill head swivel range	± 90 °		
Drilling/milling output			
Max. size milling head	100 mm	Drilling performance steel (S235JR)	32 mm
Max. size shaft milling cutter	20 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	1370 mm	Horizontal milling table width	254 mm
Min. clearance vertical spindle - horizontal milling table	40 mm	Max. clearance vertical spindle - horizontal milling table	446 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	275 kg
Cooling lubricant system			
Coolant pump(s) drive power	100 W		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C2
Travel			
Travel X axis manual	900 mm	Travel Y axis manual	320 mm
Travel Z axis manual	400 mm	Travel X axis automatic	800 mm
Travel Z axis automatic	365 mm		
Vertical spindle			
Vertical spindle reach	200 – 680 mm	Vertical spindle spindle chuck	ISO 40 DIN 2080
Vertical spindle speed range	9 – 6750 min <sup>-1</sup>	Vertical spindle swivel range milling cutter head Z - X plane	± 45 °

Vertical spindle number of gears	8	Vertical spindle speed control	electronically adjustable
Vertical spindle quill stroke	127 mm	Vertical spindle quill feed	0.038/0.076/0.152 mm/rev
Vertical spindle drive motor output normal operation	3 kW		
<b>Electrical connections</b>			
Total rated value	4,5 kW		

## Accessories ▼



### Parallel spacer kit

**BT 40**

**Article number ▼**

3536191

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



### Horizontal-vertical rotary indexing table

**RT 150**

Quality round table made of high-quality Meehanite cast

**Article number ▼**

3356150

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



### Horizontal-vertical rotary indexing table

**RT 200**

Quality round table made of high-quality Meehanite cast

**Article number ▼**

3356200

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



### Clamping tool kit

**SPW 14**

**Article number ▼**

3352018

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



**End mill set**  
HSS, 12-piece

Article number ▼  
3352250

**OPTIMUM®**  
MASCHINEN - GERMANY



**End mill set**  
HSS, 20-piece

Article number ▼  
3352255

**OPTIMUM®**  
MASCHINEN - GERMANY



**Mandrel for drill chuck**  
cone outside ISO 40 / M16 / B16

Article number ▼  
3352070

**OPTIMUM®**  
MASCHINEN - GERMANY



**Collet chuck set**  
ISO 40 / ER32 - M16 / BT40

Article number ▼  
3352056

**OPTIMUM®**  
MASCHINEN - GERMANY



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

Article number ▼  
3350216

**OPTIMUM®**  
MASCHINEN - GERMANY



**Boring Drill Bit Set**  
Boring Drill Bit Set ISO 40

Article number ▼  
3352128

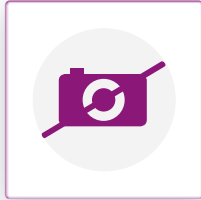
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MASCHINEN - GERMANY



**Router table feed**  
V 250S (110V)

Article number ▼  
3352025

**OPTIMUM®**  
MASCHINEN - GERMANY



**Assembly**  
**Table feed V250**

**Article number** ▼  
9000489

**OPTIMUM®**  
MASCHINEN - GERMANY



**Universal pneumatic tool clamping system**  
**ISO 40**

**Article number** ▼  
3352394

**OPTIMUM®**  
MASCHINEN - GERMANY



**Factory assembly**  
**clamping system**

**Article number** ▼  
9000490

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3354170

**OPTIMUM®**  
MASCHINEN - GERMANY



**Hydraulic machine vice**  
**HMS 125**  
Robust design for milling, drilling and grinding

**Article number** ▼  
3355127

**OPTIMUM®**  
MASCHINEN - GERMANY



**Precision machine vice**  
**FMS 150**

**Article number** ▼  
3354150

**OPTIMUM®**  
MASCHINEN - GERMANY



**Precision machine vice**  
**FMSN 150**  
Pull-down mechanism for secure clamping of the workpiece

**Article number** ▼  
3354130

**OPTIMUM®**  
MASCHINEN - GERMANY



### Milling machine vise

**VMQ 150**

Robust design for milling, drilling and grinding

**Article number** ▼

3354183

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



### Three axis vise

**MV3-75**

Horizontal swivel movement up to 90 °

**Article number** ▼

3354175

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



### Three axis vise

**MV3-125**

Horizontal swivel movement up to 90 °

**Article number** ▼

3354178

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



### Three axis vise

**DAS 100**

**Article number** ▼

3355500

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



### CNC hydraulic vise

**HCV 105**

With high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

**Article number** ▼

3536210

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



### CNC hydraulic vise

**HCV 125**

With high accuracy and repeatability for series and component machining on CNC milling machines and machining centers

**Article number** ▼

3536214

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



### Milling machine vise

**VMQ 125**

Robust design for milling, drilling and grinding

**Article number** ▼

3354182

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



### Horizontal-vertical rotary indexing table

**RT 100**

Quality round table made of high-quality Meehanite cast

**Article number** ▼

3356110

**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

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



### Twist Drill Set

**25 pieces, 1 - 13 mm**

**Article number** ▼

3201010

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



### Twist Drill Set

**41-piece, 6 - 10 mm (0.1 mm rising)**

**Article number** ▼

3201021

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





**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



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

Article number ▼  
3050610

**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®**  
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

**OPTIMUM®**  
MASCHINEN - GERMANY



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

**Article number** ▼  
3354001

**OPTIMUM®**  
MASCHINEN - GERMANY



**Twist drill HSS with Morse taper**  
**MT 3**

**Article number** ▼  
3051003

**OPTIMUM®**  
MASCHINEN - GERMANY



**Reducing sleeve**  
**MK3-MK2 / M12**

**Article number** ▼  
3350313

**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