

Drilling-milling machine

OPTImill MF 2V

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

OPTIMUM[®]
MASCHINEN - GERMANY

Article number ▼

3336030

Brand ▼

Optimum

Catalog directory ▼

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



Shipping informations ▼

| Packaging Metrics | | Weights | | Delivery | | Other | |
|-------------------|----------|---------|----------|----------|----------|---------|-----|
| Length | 1,490 mm | Gross | 1,050 kg | Delivery | Carrier | DualUse | ✘ |
| Width | 1,680 mm | Net | 950 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 $\pm 45^\circ$
- 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

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. | 1400 mm | Width/depth (product) approx. | 1450 mm |
| Height (product) approx. | 2150 mm | Net weight approx. | 950 kg |
| Drilling/milling head | | | |
| Drill-mill head tilt range | ± 45 ° | Mill head swivel range | ± 90 ° |
| Drilling/milling output | | | |
| Max. size milling head | 76 mm | Drilling performance steel (S235JR) | 24 mm |
| Max. size shaft milling cutter | 18 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 | 1244 mm | Horizontal milling table width | 230 mm |
| Min. clearance vertical spindle - horizontal milling table | 57 mm | Max. clearance vertical spindle - horizontal milling table | 463 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 | 230 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 | 800 mm | Travel Y axis manual | 305 mm |
| Travel Z axis manual | 406 mm | Travel X axis automatic | 730 mm |
| Travel Y axis milling head | 320 mm | | |
| Vertical spindle | | | |
| Vertical spindle reach | 213 – 533 mm | Vertical spindle spindle chuck | ISO 40 DIN 2080 |
| Vertical spindle speed range | 10 – 5100 min ⁻¹ | Vertical spindle number of gears | 6 |
| Vertical spindle speed control | electronically adjustable | Vertical spindle quill stroke | 127 mm |

| | | | |
|-------------------------------|---------------------------|---|--------|
| Vertical spindle quill feed | 0.04 / 0.08 / 0.15 mm/rev | Vertical spindle drive motor output normal operation | 1,5 kW |
| Electrical connections | | | |
| Total rated value | 2,2 kW | | |

Accessories ▼



Parallel spacer kit

BT 40

Article number ▼

3536191

OPTIMUM®
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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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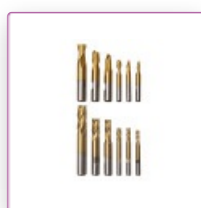
Clamping tool kit

SPW 14

Article number ▼

3352018

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End mill set

HSS, 12-piece

Article number ▼

3352250

OPTIMUM®
MASCHINEN - GERMANY



End mill set
HSS, 20-piece

Article number ▼
3352255

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

OPTIMUM®
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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

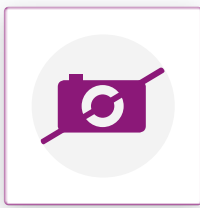
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Router table feed
V 250S (110V)

Article number ▼
3352025

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MASCHINEN - GERMANY



Assembly
Table feed V250

Article number ▼
9000489

OPTIMUM®
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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

OPTIMUM®
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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

OPTIMUM®
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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 125

Robust design for milling, drilling and grinding

Article number ▼
3354182

OPTIMUM®
MASCHINEN - GERMANY



Milling machine vise

VMQ 150

Robust design for milling, drilling and grinding

Article number ▼

3354183

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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

OPTIMUM[®]
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Three axis vise

DAS 100

Article number ▼

3355500

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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[®]
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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[®]
MASCHINEN - GERMANY



Milling machine vise

VMQ 100

Robust design for milling, drilling and grinding

Article number ▼

3354181

OPTIMUM[®]
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Horizontal-vertical rotary indexing table

RT 100

Quality round table made of high-quality Meehanite cast

Article number ▼

3356110

OPTIMUM[®]
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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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MASCHINEN - GERMANY



Milling set
radius, 9-piece

Article number ▼
3352116

OPTIMUM®
MASCHINEN - GERMANY



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

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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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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

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Reducing sleeve
MK3-MK2 / M12

Article number ▼
3350313

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Precision machine foot
SEU1

Article number ▼
3352985

OPTIMUM[®]
MASCHINEN - GERMANY



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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