

## Drilling-milling machine

### OPTImill MH 22V

Stable, with electronically infinitely variable drive

#### Article number ▼

3338135

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MH 22V / MH 22VD

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



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	917 mm	Gross	143 kg	Delivery	Carrier	DualUse	✘
Width	770 mm	Net	116 kg	Content	1 pc(s).	SCIP	n/a
Height	714 mm					SVHC	No



## Description ▼

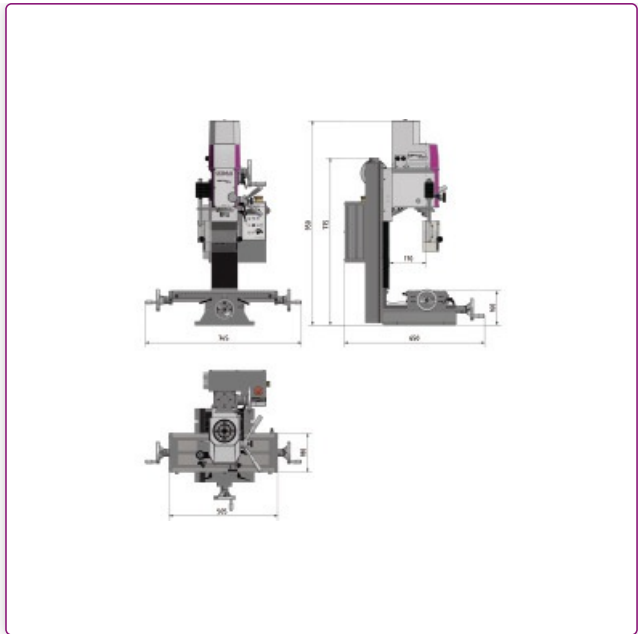
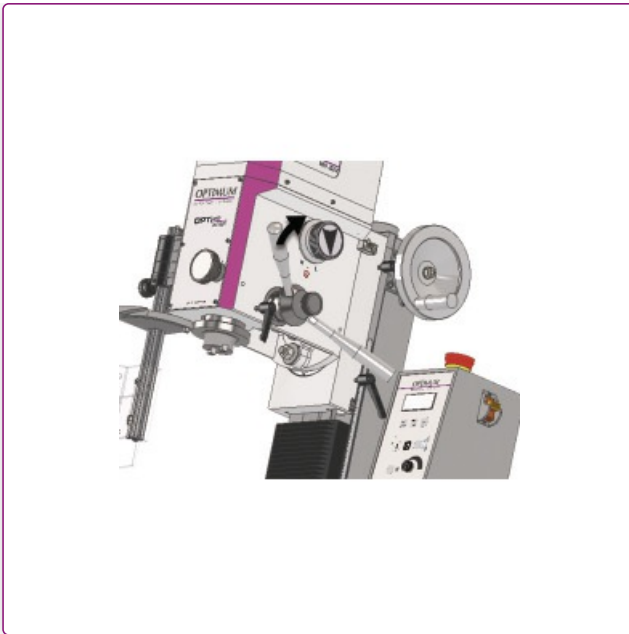
- Precisely processed
- Clear control panel with user-friendly membrane keypad
- Safety electrics in 24 volt version
- Easy-to-read digital display for speed and drilling depth
- Emergency stop switch
- Motor with two-stage gear ratio for powerful transmission of engine power
- Powerful DC motor with permanent power monitoring
- Control electronics with integrated relay control
- Drilling milling head can be tilted by 60°, for milling and drilling work at any angle
- Feed spindles play-free adjustable by adjustable spindle nuts
- Right/Left Run
- Machine lamp
- High concentricity measured by tapered roller bearings of  $\leq 0.015$  mm in the pinole
- Stable swallowtail guide with adjustable wedge strips
- Massive precise surface-worked cross table with T-slots
- Adjustable end stops
- Drilling for light oiling of the trapezoidal spindle
- Two-row angular ball bearings in the axes, play-free adjustable
- Height-adjustable protective screen with microswitch, against flying chips and parts, for maximum protection of the user
- Fine feed
- X-, Y- and Z-axis with prepared groove for subsequent assembly of the magnetic tapes
- Bellows as guide protection
- Mechanical quick-release clamping system

## Media informations ▼



**Energy chain**

- Gentle cable routing



### Mechanical quick-change clamping system

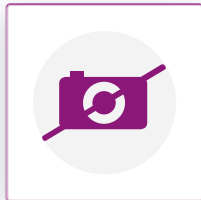
- The milling head is equipped with a collet for tightening bolts BT20x45 °
- Easy change by moving the quill lever upwards

### Technical data ▼

Dimensions and weights			
Length (product) approx.	745 mm	Width/depth (product) approx.	650 mm
Height (product) approx.	950 mm	Net weight approx.	120 kg
Drilling/milling head			
Mill head swivel range	± 60 °		
Drilling/milling output			
Drilling performance steel (S235JR)	20 mm	Max. size milling head	52 mm
Max. size shaft milling cutter	12 mm	Continuous drilling performance steel (S235JR)	16 mm
Electrical Data			
Drive motor output	0.95 kW	Supply voltage	230 V
Mains frequency	50 Hz		
Milling table horizontal			
Horizontal milling table length	700 mm	Horizontal milling table width	180 mm
Horizontal milling table T-groove size	12 mm	Horizontal milling table T-groove number	3
Horizontal milling table T-groove spacing	63 mm	Horizontal milling table max. load bearing capacity	50 kg
Cross table			
Clearance vertical spindle - cross table	360 mm		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C2
Travel			
Travel X axis manual	480 mm	Travel Y axis manual	175 mm
Travel Z axis manual	270 mm		
Vertical spindle			

Vertical spindle reach	170 mm	Vertical spindle spindle chuck	BT 20
Vertical spindle speed range	90 – 3000 min <sup>-1</sup>	Vertical spindle number of gears	2
Vertical spindle speed control	electronic	Vertical spindle quill diameter	60 mm
Vertical spindle quill stroke	45 mm		

## Accessories



### Starter kit

BT 20

Article number 

3353281

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### Cutter head holder

16mm - BT20

Article number 

3352728

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### Tool holder

BT 20 - B16

Article number 

3352727

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### Weldon holder BT 20

Ø 6 mm

Article number 


3352732

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### Weldon holder BT 20

Ø 8 mm

Article number 

3352734

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### Weldon holder BT 20

Ø 10 mm

Article number 

3352736

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### Weldon holder BT 20

Ø 12 mm

Article number ▼

3352738

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### Collet chuck

ER16

Article number ▼

3352741

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### Collet holder key

HE 16

Article number ▼

3352742

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### Collet set

ER 16, 1 - 10 mm

Article number ▼

3440282

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### Pull stud

BT 20

Article number ▼

3352726

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### Keyless drill chuck

DKC13 1-13 mm

Article number ▼

3050632

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### End mill set

HSS, 12-piece

Article number ▼

3352250

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**Mounting kit**  
for DRO5 on MH20V/MH22V

**Article number** ▼  
3383990

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**Universal base**  
MSM 1 340 x 420 x 800 mm

**Article number** ▼  
3353000

**OPTIMUM**<sup>®</sup>  
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**Chip tray**  
720 x 470 x 30 mm

**Article number** ▼  
3352999

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**Precision machine vice**  
FMS 100

**Article number** ▼  
3354100

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**Precision machine vice**  
FMSN 100

**Article number** ▼  
3354110

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**Milling machine vise**  
VMQ 80  
Robust design for milling, drilling and grinding

**Article number** ▼  
3354180

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**Milling machine vise**  
VMQ 100  
Robust design for milling, drilling and grinding

**Article number** ▼  
3354181

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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

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### End mill set

HSS, 20-piece

Article number ▼

3352255

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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

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**Clamping tool kit**  
SPW 10

Article number ▼  
3352016

**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 DKC16 1-16 mm

Article number ▼  
3050633

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### Shaft BT 20

Univ. Insert, for processing on all steel and non-ferrous metals

Article number ▼  
3350202

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### Collet set ER 25, Ø 1-16 mm

Article number ▼  
3441109

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### Prism WP 30

Article number ▼  
3352195

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### Tapping attachment M5 - M12 / B16

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

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3352042

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### Workpiece support WPS-1

Adjustment range 40 - 50 mm

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3354261

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### Workpiece support

**WPS-2**

Adjustment range 65 - 90 mm

**Article number** ▼

3354262

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### T-nut

**M 10/12 mm**

**Article number** ▼

3353022

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### Parallel spacer kit

**20 parts**

**Article number** ▼

3354001

**OPTIMUM**<sup>®</sup>  
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### Coolant hoses with magnetic base

**KMS 2**

**Article number** ▼

3356660

**OPTIMUM**<sup>®</sup>  
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### Cooling lubricant nebulizer

**MMC1**

**Article number** ▼

3356663

**OPTIMUM**<sup>®</sup>  
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### Vibration damper machine foot

**SE 55**

**Article number** ▼

3352981

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



**Leveling plate**  
**SE 1**

**Article number** ▼  
3381012