

## Precision drilling-milling machine

### OPTImill MH 35G

Universal precision drilling-milling machines with manual transmission. MH 35V with electronically controllable drive. Control unit with dirt and water resistant membrane keypad

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

#### Article number ▼

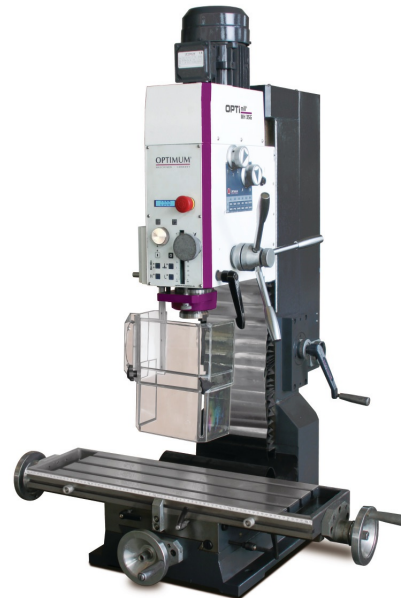
3338165

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MH 35G / MH 35V



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,577 mm	Gross	363 kg	Delivery	Carrier	DualUse	✘
Width	864 mm	Net	318 kg	Content	1 pc(s).	SCIP	n/a
Height	844 mm					SVHC	No



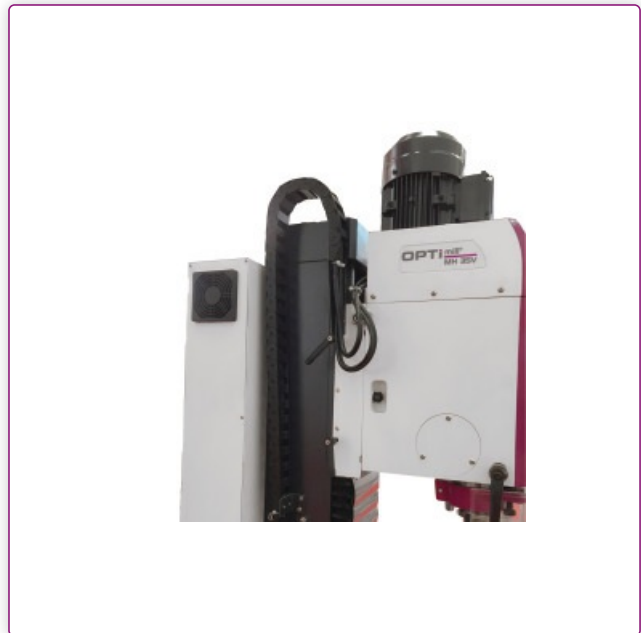
## Description ▼

- Control panel with user-friendly, dirt and water-resistant membrane keypad
- Easy to read digital display
- Easy to read quill display in the milling head
- depth stop
- Threading mode
- Right / left rotation
- Rotary pushbutton in the control panel for setting the drilling depth optionally in mm or inch and zero point
- High concentricity due to tapered roller bearing, better than 0.015 mm measured in the quill
- Gear head tiltable  $\pm 30^\circ$
- Manual fine feed
- Adjustable wedges
- Z-axis with lamellar protective cover made of stainless steel
- 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
- Heavy, stable and solid column, made of high-quality gray cast iron, with ground and scraped dovetail guide, for high stability and precision
- Optional solid, heavy steel base provides stability

### MH 35G:

- Two-stage quality industrial electric motor

## Media informations ▼



**Energy chain**

- Gentle cable routing

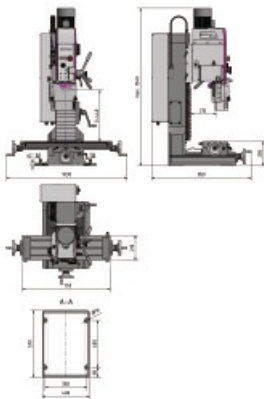


### Mechanical quick-change clamping system

- Milling head is equipped with a collet for the pull stud BT30x45 °
- Easy change by unlocking the mechanical lock and moving the sleeve lever upwards



- Depth selection freely configurable via digital display
- In speed mode, the machine automatically switches over from clockwise to anti-clockwise run.



### Technical data ▼

Dimensions and weights			
Length (product) approx.	850 mm	Width/depth (product) approx.	1030 mm
Height (product) approx.	1340 mm	Net weight approx.	318 kg
Drilling/milling head			
Drill-mill head tilt range	± 30 °		
Drilling/milling output			
Max. size milling head	80 mm	Drilling performance steel (S235JR)	32 mm
Max. size shaft milling cutter	28 mm	Continuous drilling performance steel (S235JR)	28 mm

Electrical Data			
Drive motor output	1,1 / 1,5 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Milling table horizontal			
Horizontal milling table length	750 mm	Horizontal milling table width	210 mm
Max. clearance vertical spindle - horizontal milling table	440 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	170 kg		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C2
Travel			
Travel X axis manual	450 mm	Travel Y axis manual	200 mm
Travel Z axis manual	460 mm		
Vertical spindle			
Vertical spindle reach	215 mm	Vertical spindle spindle chuck	BT 30
Vertical spindle speed range	220 – 3100 min <sup>-1</sup>	Vertical spindle number of gears	2 x 6 Steps
Vertical spindle quill diameter	68 mm	Vertical spindle quill stroke	90 mm

## Accessories ▼



### Holder BT 30/M12 - B16

Article number ▼  
3353308

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### Cutter head holder 22mm - BT30

Article number ▼  
3353306

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### Drill chuck for BT 40 / Satz2

Article number ▼  
3536333

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**Welding holder**

Ø 6 mm - BT30

Article number ▼

3353310

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**Welding holder**

Ø 8 mm - BT30

Article number ▼

3353311

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**Welding holder**

Ø 10 mm - BT30

Article number ▼

3353312

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**Welding holder**

Ø 12 mm - BT30

Article number ▼

3353313

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**Welding holder**

Ø 16 mm - BT30

Article number ▼

3353314

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**Welding holder**

Ø 20 mm - BT30

Article number ▼

3353315

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**Adapter**

BT 30 on MK 2

Article number ▼

3353305

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**Collet holder**  
ER 32 - BT30

Article number ▼  
3353304

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**Collet holder key**  
ER 32 - BT40

Article number ▼  
3353307

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**Collet set**  
ER 32, Ø 1 - 16 mm

Article number ▼  
3441122

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**Height adjustment device**  
analog

Article number ▼  
3536290

**OPTIMUM®**  
MASCHINEN - GERMANY



**Cone wiper**  
BT30

Article number ▼  
3353301

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### Pull stud

BT 30

Article number ▼

3353302

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### Router table feed

V 99S

Article number ▼

3352021

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### Mounting kit

V 99S, X-axis BF30/MH35

Article number ▼

3352035

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### Clamping tool kit

SPW 10

Article number ▼

3352016

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### Substructure

MSM 3 650 x 550 x 750 mm

Article number ▼

3353014

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### Precision machine vice

FMS 125

Article number ▼

3354125

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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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### Three axis vise

**DAS 100**

**Article number** ▼

3355500

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### Two axis vise

**ZAS 50**

**Article number** ▼

3354170

**OPTIMUM®**  
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### Starter kit

**BT 30**

**Article number** ▼

3353282

**OPTIMUM®**  
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### Hydraulic milling machine vice

**HMS 100**

Robust design for milling, drilling and grinding

**Article number** ▼

3355100

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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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### Horizontal-vertical rotary indexing table

**RT 100**

Quality round table made of high-quality Meehanite cast

**Article number** ▼

3356110

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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 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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### 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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**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®**  
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### Plan and copy cutter head BT 30

Article number ▼  
3350203

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### Pull stud JIS B 6339

Article number ▼  
3536302

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### Stop angle 90 degrees

Article number ▼  
3385052

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### Prism WP 30

Article number ▼  
3352195

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### Workpiece support WPS-1

Adjustment range 40 - 50 mm

Article number ▼  
3354261

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### Workpiece support WPS-3

Adjustment range 90 - 140 mm

Article number ▼  
3354263

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**T-nut**  
**M 10/12 mm**

**Article number** ▼  
3353022

**OPTIMUM**<sup>®</sup>  
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**Parallel spacer kit**  
**20 parts**

**Article number** ▼  
3354001

**OPTIMUM**<sup>®</sup>  
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**Universal coolant device**  
**230 V**

**Article number** ▼  
3351999

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



**Coolant hoses with magnetic base**  
**KMS 2**

**Article number** ▼  
3356660

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



**Cooling lubricant nebulizer**  
**MMC1**

**Article number** ▼  
3356663

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



**Vibration damper machine foot**  
**SE 55**

**Article number** ▼  
3352981

**OPTIMUM**<sup>®</sup>  
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**Leveling plate**  
**SE 1**

**Article number** ▼  
3381012