

Precision drilling-milling machine

OPTImill MH 50V

Universal precision boring milling machines with manual transmission and electric Z-axis adjustment. MH 50V with electronically controllable drive. Control unit with dirt and water resistant membrane keypad

OPTIMUM[®]
MASCHINEN - GERMANY

Article number ▼

3338185

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MH 50G / MH 50V



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	924 mm	Gross	575 kg	Delivery	Carrier	DualUse	✘
Width	964 mm	Net	518 kg	Content	1 pc(s).	SCIP	n/a
Height	1,809 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
- Forward / reverse operation
- Threading mode
- 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 $\pm 30^\circ$
- Electric milling head height adjustment
- Manual fine feed
- Adjustable wedges
- Height-adjustable protective screen with micro-switch, against flying chips and parts, for maximum protection of the user
- Heavy, stable and solid column made of high quality gray cast iron with ground and scraped dovetail guide for high stability and precision
- Z-axis with lamellar protective cover made of stainless steel
- Massive and large-dimensioned XY stage, precisely surface-finished with T-slots
- Optional solid, heavy steel base provides stability

MH 50G:

- Two-stage quality industrial electric motor

MH 50V:

- 6 gear stages, electronically controlled

Delivery content ▼

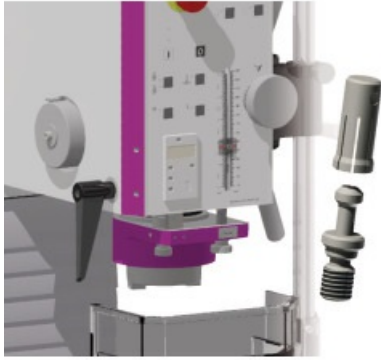
- operating tool

Media informations ▼



Energy chain

- Gentle cable routing

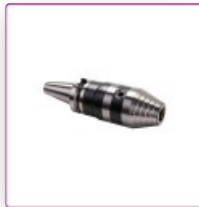


Mechanical quick-change clamping system

- Milling head is equipped with a collet chuck for the BT40x45 ° pull stud
- To change - only unlock with the mechanical locking device of the quick release system and push the quill lever upwards

Technical data ▼

Dimensions and weights			
Length (product) approx.	1210 mm	Width/depth (product) approx.	1020 mm
Height (product) approx.	1645 mm	Net weight approx.	518 kg
Drilling/milling output			
Drilling performance steel (S235JR)	38 mm	Max. size milling head	80 mm
Max. size shaft milling cutter	32 mm	Continuous drilling performance steel (S235JR)	32 mm
Electrical Data			
Drive motor output	2,2 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Milling table horizontal			
Horizontal milling table length	850 mm	Horizontal milling table width	240 mm
Max. clearance vertical spindle - horizontal milling table	545 mm	Horizontal milling table T-groove size	18 mm
Horizontal milling table T-groove number	3	Horizontal milling table T-groove spacing	80 mm
Horizontal milling table max. load bearing capacity	175 kg		
Travel			
Travel X axis manual	520 mm	Travel Y axis manual	260 mm
Travel Z axis manual	465 mm	Travel Z axis automatic	385 mm
Vertical spindle			
Vertical spindle reach	260 mm	Vertical spindle spindle chuck	BT 40
Vertical spindle swivel range milling cutter head Z - X plane	± 30 °	Vertical spindle speed range	50 – 3260 min ⁻¹
Vertical spindle number of gears	6	Vertical spindle speed control	electronically adjustable

Accessories ▼**Cutter head holder**
27mm - BT40**Article number** ▼
3353336**OPTIMUM**[®]
MASCHINEN - GERMANY**Drill chuck**
for BT 30**Article number** ▼
3536303**OPTIMUM**[®]
MASCHINEN - GERMANY**Weldon holder**
Ø 6 mm - BT40**Article number** ▼
3353340**OPTIMUM**[®]
MASCHINEN - GERMANY**Weldon holder**
Ø 8 mm - BT40**Article number** ▼
3353341**OPTIMUM**[®]
MASCHINEN - GERMANY**Weldon holder**
Ø 10 mm - BT40**Article number** ▼
3353342**OPTIMUM**[®]
MASCHINEN - GERMANY**Weldon holder**
Ø 12 mm - BT40**Article number** ▼
3353343**OPTIMUM**[®]
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Weldon holder
Ø 16 mm - BT40

Article number ▼
3353344

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Weldon holder
Ø 20 mm - BT40

Article number ▼
3353345

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Adapter
BT 40 on MK 3

Article number ▼
3353335

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Collet holder
ER 32 - BT40

Article number ▼
3353334

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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

OPTIMUM®
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Height adjustment device
analog

Article number ▼
3536290

OPTIMUM®
MASCHINEN - GERMANY



Cone wiper
BT40

Article number ▼
3353331

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Pull stud
BT 40

Article number ▼
3353332

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Router table feed
V 99S

Article number ▼
3352021

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Mounting kit
V 99S, X-axis BF46/MH50

Article number ▼
3352036

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Clamping tool kit
SPW 16

Article number ▼
3352019

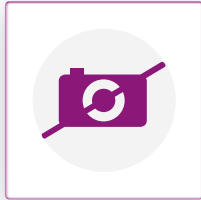
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Substructure
MSM 4 750 x 750 x 730 mm

Article number ▼
3353015

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Starter kit
BT 40

Article number ▼
3353284

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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 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

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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

OPTIMUM®
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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

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Milling set
radius, 9-piece

Article number ▼
3352116

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Edge finder
Diameter 10 mm

Article number ▼
3351171

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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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Plan and copy cutter head
BT 40

Article number ▼
3350204

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Pull stud
JIS B 6339

Article number ▼
3536332

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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

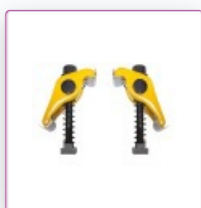
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T-nut
M 16/18 mm

Article number ▼
3353028

OPTIMUM®
MASCHINEN - GERMANY



Down device
Table groove 18 mm / M 16

Article number ▼
3352032

OPTIMUM®
MASCHINEN - GERMANY



Parallel spacer kit

20 parts

Article number ▼

3354001

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Universal coolant device

230 V

Article number ▼

3351999

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Coolant hoses with magnetic base

KMS 2

Article number ▼

3356660

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Cooling lubricant nebulizer

MMC1

Article number ▼

3356663

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Vibration damper machine foot

SE 55

Article number ▼

3352981

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Leveling plate

SE 1

Article number ▼

3381012

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