

Precision drilling-milling machine

OPTImill MT 50

Universal precision boring / milling machine for horizontal and vertical milling with digital 3-axis position indicator DPA 2000

Article number ▼

3336005

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MT 50

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,460 mm	Gross	944 kg	Delivery	Carrier	DualUse	✘
Width	1,200 mm	Net	900 kg	Content	1 pc(s).	SCIP	n/a
Height	2,220 mm					SVHC	No



Description ▼

- Heavy, solid design made of high-quality vibration-absorbing gray cast iron
- LED machine lamp with focused beam
- Quill feed via the quill lever or with the fine feed handwheel
- Containers for horizontal milling by attaching to the back always handy
- Automatic end shutdown of the X-axis
- X-axis moves either with the handwheel or via the table feed device
- Spindle head carrier can be swiveled to the left and right by 90°
- Oil bath gearbox with ground, hardened gear wheels
- Left-right rotation
- Coolant system
- Exact cross table, large dimensions and precise surface finish
- XY stage can be turned 45° on both sides
- Milling head inclinable $\pm 45^\circ$

Delivery content ▼

- Toothed rim drill chuck 1 - 16 mm / B 18
- Arbor drill chuck ISO40 / B18
- Milling spindle horizontal milling $\varnothing 22$ mm / 27 mm
- Reducing bushes ISO 40-MK 3 / ISO 40-MK 2
- T-rod vertical and horizontal
- T-nuts
- Extractor
- Operating tool

Media informations ▼



Horizontal milling position

- For working in horizontal milling position with counterholder and mounting for side milling cutter



OPTI control panel

- Integrated control panel
- New - now with integrated **digital position indicator DPA 21**
- Swivels to the left and right side of the machine



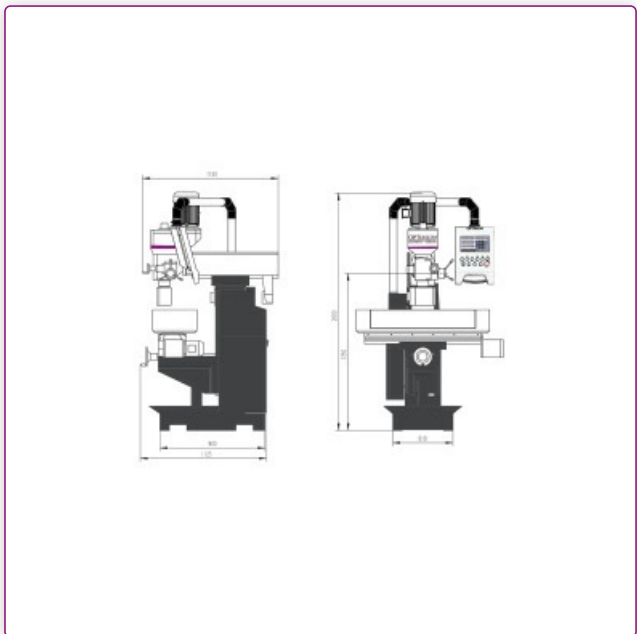
Cross table enclosure

- Hinged
- Removable



Cross table

- can be rotated $\pm 45^\circ$ on both sides



Technical data ▼

Dimensions and weights			
Length (product) approx.	1290 mm	Width/depth (product) approx.	1090 mm
Height (product) approx.	2170 mm	Net weight approx.	820 kg
Drilling/milling head			
Mill head swivel range	$\pm 45^\circ$		
Drilling/milling output			

Max. size milling head	100 mm	Drilling performance steel (S235JR)	30 mm
Max. size shaft milling cutter	25 mm	Continuous drilling performance steel (S235JR)	25 mm
Electrical Data			
Supply voltage	400 V	Mains frequency	50 Hz
Milling table horizontal			
Horizontal milling table length	1000 mm	Horizontal milling table width	240 mm
Horizontal milling table T-groove size	14 mm	Horizontal milling table T-groove number	4
Horizontal milling table max. load bearing capacity	160 kg		
Horizontal spindle			
Horizontal spindle reach	0 – 185 mm	Horizontal spindle spindle chuck	ISO 40 DIN 2080
Horizontal spindle gear	60 – 1350 min ⁻¹	Horizontal spindle number of gears	9
Horizontal spindle drive motor output	1,5 kW		
Cooling lubricant system			
Coolant pump(s) drive power	40 W		
Travel			
Travel X axis manual	580 mm	Travel Y axis manual	200 mm
Travel Z axis manual	340 mm	Travel X axis automatic	500 mm
Vertical spindle			
Vertical spindle reach	240 – 650 mm	Vertical spindle spindle chuck	ISO 40 DIN 2080
Vertical spindle speed range	115 – 1750 min ⁻¹	Vertical spindle number of gears	8
Vertical spindle quill stroke	120 mm	Vertical spindle drive motor output normal operation	1.1 / 2.2 kW
Feed speed			
X axis feed speed	24 – 720 mm/min		
Electrical connections			
Total rated value	4,5 kW		

Accessories ▼



Parallel spacer kit 20 parts

Article number ▼
3354001

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Parallel spacer kit BT 40

Article number ▼
3536191

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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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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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Clamping tool kit

SPW 12

Article number ▼

3352017

OPTIMUM®
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End mill set

HSS, 12-piece

Article number ▼

3352250

OPTIMUM®
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End mill set
HSS, 20-piece

Article number ▼
3352255

OPTIMUM®
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Workpiece support
WPS-4

Adjustment range 140 - 230 mm

Article number ▼
3354264

OPTIMUM®
MASCHINEN - GERMANY



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

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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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Down device
Table groove 14 mm / M 12

Article number ▼
3352031

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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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Universal dividing head

TA 125

Swiveling from -100 to +900

Article number ▼

3356125

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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

OPTIMUM®
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Precision quick-action drill chuck
1-10 mm, B16

Article number ▼
3050610

OPTIMUM®
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Keyless drill chuck
DKC13 1-13 mm

Article number ▼
3050632

OPTIMUM®
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Keyless drill chuck
DKC16 1-16 mm

Article number ▼
3050633

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Mandrel for drill chuck
Cone outside MK 2 / M10 / B16

Article number ▼
3050670

OPTIMUM®
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Mandrel for drill chuck
Cone outside MK 4 / M16 / B16

Article number ▼
3350304

OPTIMUM®
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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

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Tapping attachment
M5 - M12 / B16

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

Article number ▼
3352042

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T-nut
M 12/14 mm

Article number ▼
3353025

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Precision machine foot
SEU1

Article number ▼
3352985

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Vibration damper machine foot
SE 85

Article number ▼
3352982

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Leveling plate
SE 2

Article number ▼
3381016

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