

Universal milling machine

OPTImill MT 60

Universal milling machine for horizontal and vertical milling work. With digital 3-axis position indicator DPA 21

Article number ▼

3336090

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Milling machines conventional » OPTImill MT 60

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,460 mm	Gross	1,400 kg	Delivery	Carrier	DualUse	✘
Width	1,200 mm	Net	1,300 kg	Content	1 pc(s).	SCIP	n/a
Height	2,220 mm					SVHC	No



Description ▼

- Milling head inclinable $\pm 45^\circ$
- Spindle head carrier can be moved forwards and backwards
- Heavy, solid design made of high-quality vibration-absorbing gray cast iron
- Backstop for horizontal milling by attachment to the back always at hand
- Quill feed via the quill lever or with the fine feed handwheel
- X-axis moves either with the handwheel or via the table feed device
- Coolant system
- Automatic quill feed
- Height-adjustable protective screen with micro-switch, against flying chips and parts, for maximum protection of the user
- Massive and large dimensioned XY stage, precise surface finished with T-slots and adjustable wedges, swiveling $\pm 45^\circ$

Delivery content ▼

- Geared chuck $\varnothing 1 - 16$ mm / B16
- Mandrel Drill chuck ISO40 / B16
- Adapter ISO40 / MK3
- Adapter ISO40 / MK2
- Milling spindle Horizontal milling $\varnothing 22$ mm
- Milling spindle Horizontal milling $\varnothing 27$ mm
- Drawbar vertical and horizontal
- Operating tool

Media informations ▼



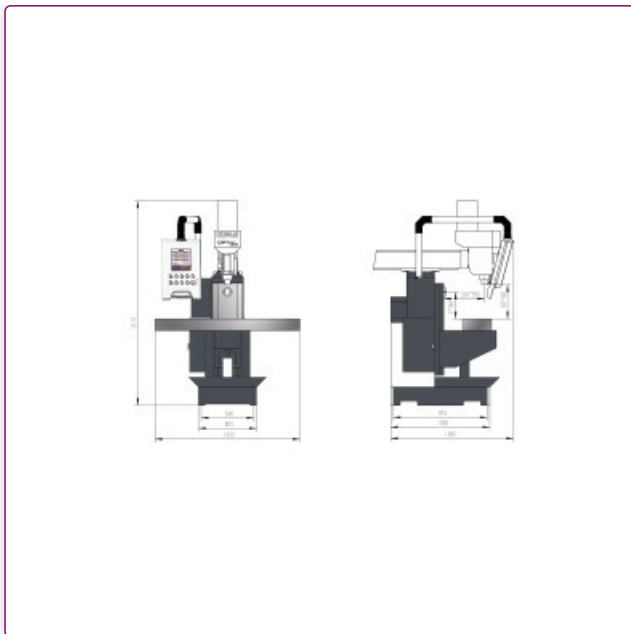
Digital position indicator DPA 21

- Clearly arranged keyboard
- Glare-free display
- Resolution 5 μm
- Protected by rubber sealing lip from dust, chips and spray water



Horizontal milling position

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

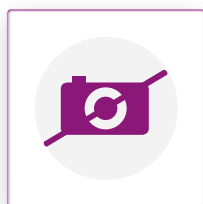


Technical data ▼


Dimensions and weights			
Length (product) approx.	1650 mm	Width/depth (product) approx.	1310 mm
Height (product) approx.	2160 mm	Net weight approx.	1300 kg
Drilling/milling head			
Drill-mill head tilt 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	1270 mm	Horizontal milling table width	280 mm
Min. clearance vertical spindle - horizontal milling table	60 mm	Max. clearance vertical spindle - horizontal milling table	420 mm
Horizontal milling table T-groove size	14 mm	Horizontal milling table T-groove number	4
Horizontal milling table T-groove spacing	50 mm	Horizontal milling table max. load bearing capacity	150 kg
Horizontal spindle			
Horizontal spindle reach	35 – 370 mm	Horizontal spindle spindle chuck	ISO 40 DIN 2080
Horizontal spindle gear	40 – 1300 min ⁻¹	Horizontal spindle number of gears	9
Horizontal spindle drive motor output	2,2 kW		
Cooling lubricant system			
Coolant pump(s) drive power	40 W		
Travel			
Travel X axis manual	750 mm	Travel Y axis manual	230 mm
Travel Z axis manual	360 mm	Travel X axis automatic	680 mm
Vertical spindle			
Vertical spindle reach	220 – 550 mm	Vertical spindle quill feed type	automatic
Vertical spindle spindle chuck	ISO 40 DIN 2080	Vertical spindle speed range	90 – 2000 min ⁻¹
Vertical spindle number of gears	8	Vertical spindle quill diameter	90 mm

Vertical spindle quill stroke	120 mm	Vertical spindle tightening bar	M16
Vertical spindle quill feed	0.008 – 0.25 (3 levels) mm/rev	Vertical spindle drive motor output normal operation	2,2 kW
Electrical connections			
Total rated value	5 kW		

Accessories



Assembly Table feed V250


Article number 
9000489

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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, 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

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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

OPTIMUM®
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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
MV3-125

Horizontal swivel movement up to 90 °
Article number ▼
3354178

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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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End mill set
HSS, 12-piece

Article number ▼
3352250

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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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Mandrel for drill chuck

Cone outside MK 2 / M10 / B16

Article number ▼

3050670

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Mandrel for drill chuck

Cone outside MK 4 / M16 / B16

Article number ▼

3350304

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Collet set

ER 32, Ø 1 - 16 mm

Article number ▼

3441122

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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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Workpiece support

WPS-4

Adjustment range 140 - 230 mm

Article number ▼

3354264

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T-nut

M 12/14 mm

Article number ▼

3353025

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Down device

Table groove 14 mm / M 12

Article number ▼

3352031

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Parallel spacer kit

20 parts

Article number ▼

3354001

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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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