OPTIMUM®
MASCHINEN - GERMANY

SHEET METAL/METALWORKING



Folding machine FP 30 - universally deployable

Facts that impress in terms of quality, performance and price

- Folding machine FP 30 for bending and folding sheet metals
- Removable bending beam segments
- Convenient swivel movement of the bending beam via lever handle
- Premium quality bending beam
- For use on a vice



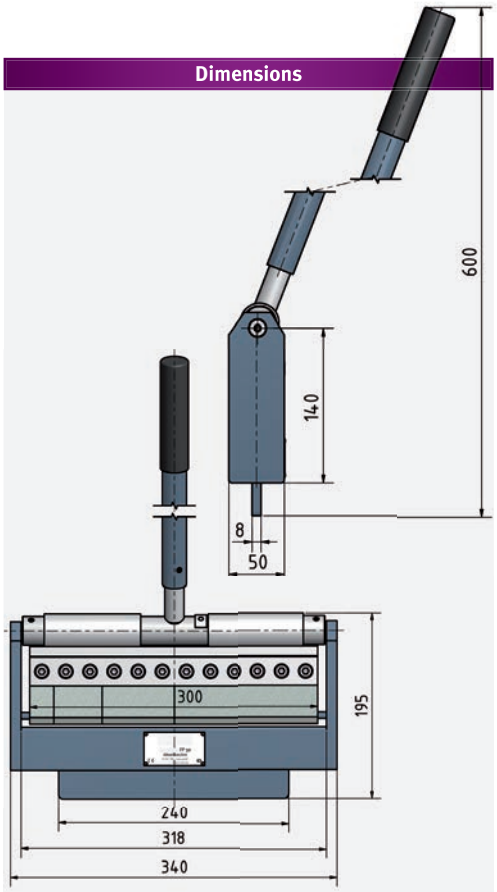


› Bending segment pieces

150 mm/75 mm/50 mm and 25 mm removable

Fig.: Folding machine FP 30

Dimensions



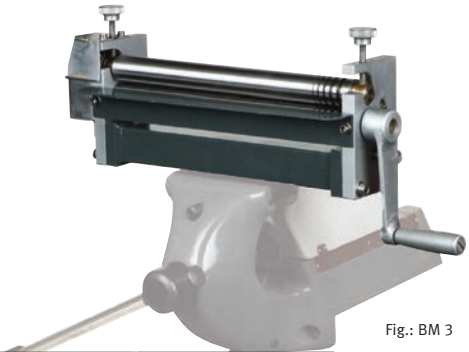
Model	FP 30
Article no.	3244028
Performance features	
Max material width	320 mm
Max. sheet thickness	2.5 mm

Max. folding performance at 90°	
Aluminium/copper	300 x 2 mm
Steel sheet	300 x 1 mm
Net weight	10 kg

Three-roller roll bending machine BM3 - universally deployable

Facts that impress in terms of quality, performance and price

- Bending and rolling of wires, tubes and sheet
- Polished bending rollers
- Borne steel side frames (self-lubricating)
- Two removable unwinding rollers
- Material thickness and rolling radius separately adjustable
- For use on a vice
- Sturdy support surface

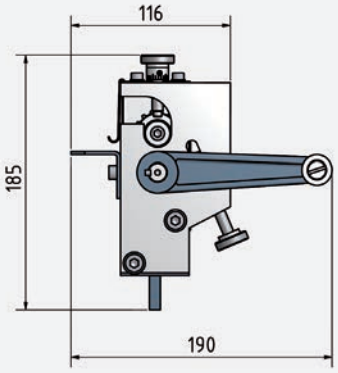


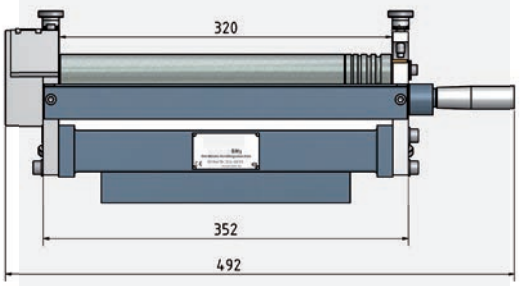


› Wire insertion grooves Ø 1 - 2 - 3 - 4 - 5 mm

Fig.: BM 3

Dimensions





Model	BM 3
Article no.	3244030
Performance features	
Max material width	310 mm
Bending Ø min.	35 mm
Bending Ø max.	unlimited
Net weight	10 kg

Rolling thickness max.	
Steel sheet St. 37	1 mm
Stainless steel	1 mm
Aluminium/copper	2 mm
Brass	1 mm
Gold/silver/tinplate	2 mm
Narrow widths	3 mm
Round materials	1 - 5 mm
Unwinding roller	ø 30 mm

CRAFTSMEN

OPTIMUM® MASCHINEN - GERMANY

Sheet metal working machine 3 in 1:
Plate rolling, folding, and cutting Ideally suited for demanding users

Facts that impress in terms of quality, performance and price

- Modern design and sturdy steel construction
- High level of design flexibility thanks to segmented folding rail with removable segments
- Operation via two large, adjustable and easily operable levers arranged at the side
- Scissor table with recessed measuring strips and right-angle stop on both sides
- Easily adjustable top, rear and bottom rollers
- Long support surface
- Adjustable rear stop and extensible front material support for safe support of large-format sheet metal

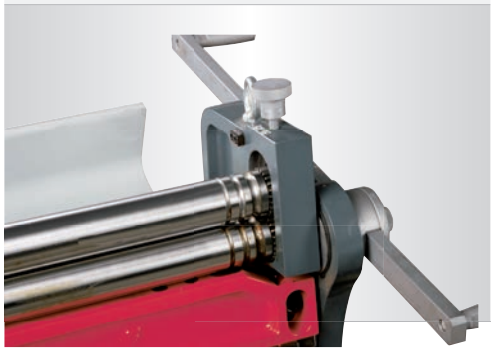


Fig.: SAR 1000

Plate rolling

› Adjusting screws for material thickness with scale

› Ground bending rollers with wire insert slots on the bottom and front rollers



Folding

› Premium folding bars

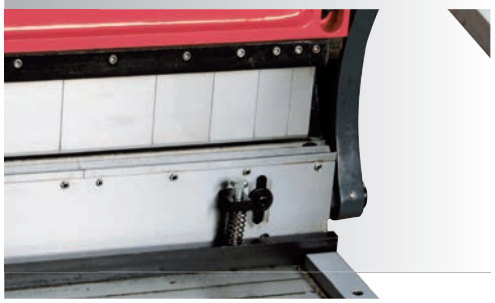
› Spring hold-down unit

› Segmented folding rail 40 mm/50 mm/65 mm/100 mm/180 mm/255 mm/380 mm for cassette bending



Cutting

› Clean and burr-free cutting thanks to top and bottom blades made of quality grade steel



Scope of delivery

› Adjustable rear stop

› Front material support

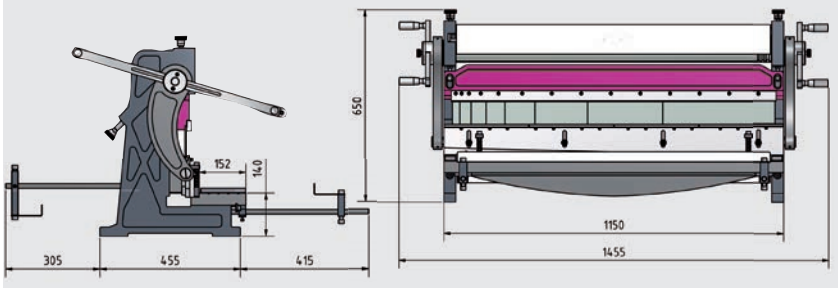
› Tool



Optional accessories
Machine base
› L x W x H: 1 185 x 500 x 700 mm
Article no. 3242107

Model	SAR 1000
Article no.	3242100
Technical data	
Max material width	700 mm
Plate rolling	
Plate rolling min.	Ø 48 mm
Plate rolling max.	Ø unlimited
Steel sheet (S235JR)	up to 1 mm
Stainless steel	up to 0.5 mm
Aluminium/copper	up to 1.5 mm
Brass	up to 1 mm
Gold/Silver/Tinplate	up to 1.5 mm
Unwinding roller Ø	48 mm
Folding	
Max. sheet thickness	2.5 mm*
Aluminium/copper	up to 1.5 mm
Steel sheet (S235JR)	up to 1 mm
Number of segments	7
Cutting	
Cutting capacity max.	up to 1 mm
Net weight	290 kg

Dimensions



CRAFTSMEN

Lever-action snips - a quality product for trade applications

Facts that impress in terms of quality, performance and price

- For cutting metal plates, sheet, round and flat steel
- Sturdy snip body
- Good ergonomic cutting geometry
- Easy, strength-saving cutting over the entire length of the cut
- Robust handle ensures a good grip
- Premium blades
- The workpiece to be cut is held down in horizontal position by the hold-down unit
- Stable base and holes drilled for stationary fastening



Fig.: Ps 125

Fig.: Ps 300

Blade



› Premium blade with long service life
› Hold-down unit prevents sheet twisting during cutting
› Strong springs prevent the shears closing autonomously



Model	PS 125	PS 150	PS 300
Article no.	3241006	3241007	3241012
Cutting capacity			
Max. cutting length (b)	95 mm	115 mm	235 mm
Max. sheet thickness (c)	3 mm*	4 mm*	4 mm*
Dimensions L x W x H	245 x 110 x 935 mm	325 x 120 x 960 mm	490 x 155 x 1 340 mm
Net weight	8.7 kg	10.7 kg	23 kg

*Not over the entire length - material steel (S235JR), stainless steel up to 1 mm

Spareblade set	Article no.
› 2-part	
for PS 125	3241025
for PS 150	3241026
for PS 300	3241028

CRAFTSMEN

DDP 10/DDP 20/DDP 30/DDP 50

Precision arbour presses with rugged and solid design. For mechanical workshops and repair operations

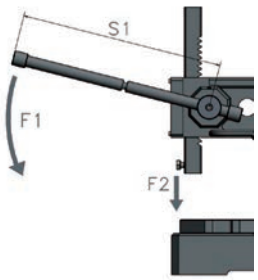
Facts that impress in terms of quality, performance and price

- For pressing in and out of bearings, mandrels, bushings, spindles, pins
- Stable design
- Premium grey cast body
- Variably adjustable lever
- Baseplate adjustable in four positions
- For fastening on a workbench





Model	DDP 10	DDP 20	DDP 30	DDP 50
Article no.	3359011	3359012	3359013	3359015
Technical data				
Max. workpiece height	123 mm	195 mm	310 mm	459 mm
Throat	95 mm	120 mm	150 mm	226 mm
Dimensions/weight				
L x W x H max.	270 x 180 x 410 mm	430 x 235 x 680 mm	455 x 260 x 850 mm	650 x 350 x 785 mm
Stamp size (L x W x H)	25 x 25 x 240 mm	32 x 32 x 345 mm	38 x 38 x 455 mm	50 x 50 x 647 mm
Net weight	14 kg	33 kg	55 kg	167 kg



Effective force		DDP 10		DDP 20		DDP 30		DDP 50	
Hand force	F1	392.4 N	589 N	392.4 N	589 N	392.4 N	589 N	392.4 N	589 N
		(40 kg)	(60 kg)	(40 kg)	(60 kg)	(40 kg)	(60 kg)	(40 kg)	(60 kg)
Long lever	S1	340 mm		450 mm		600 mm		850 mm	
Effective force	F2	7 480 N	11 220 N	8 364 N	12 555 N	7 705 N	11 566 N	10 251 N	15 372 N
		(763 kg)	(1 143 kg)	(853 kg)	(1 280 kg)	(786 kg)	(1 179 kg)	(1 045 kg)	(1 567 kg)

MACHINE LAMPS



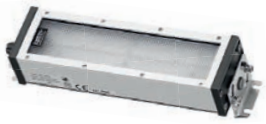
Robust machine lamps for individual use:

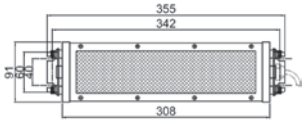
LED machine and workshop lighting	
› Electrical connection 230 V ~ 50Hz or DC 24V	› LED service life › 60 000 h
› Colour temperature 5 700 K ±5%	› Vibration-proof at 10 to 55 Hz (amplitude 0.35 mm), shockproof up to 50 g
› Safety glass	› Degree of protection IP65, protection class I (operation with PE connection)
› Robust, high-luminosity machine lamp	› Operational mode: Continuous operation
› Aluminium housing with black side parts	› Maximum permissible ambient temperature Tmax. 50° C°
› Reflection angle 120° (reflector)	› Bracket-mounted, swivel angle ± 45°

Model	MWL 1	MWL 2	MWL 3	MWL 4
Article no. AC230V	3351030	3351031	3351032	3351033
Article no. DC24V	3351040*	3351041*	3351042*	3351043*
Power	28 Watts	56 Watts	84 Watts	112 Watts
Lamp length	340 mm	630 mm	920 mm	1 210 mm
Luminosity (Lumen)	4 400 Lm	8 800 Lm	13 200 Lm	17 600 Lm

* Required safety transformer as per EN 61558-2-6 not included in scope of delivery

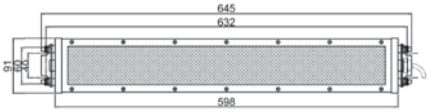


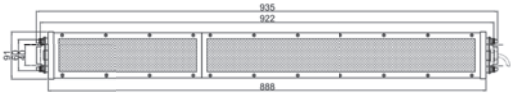




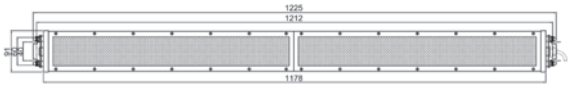






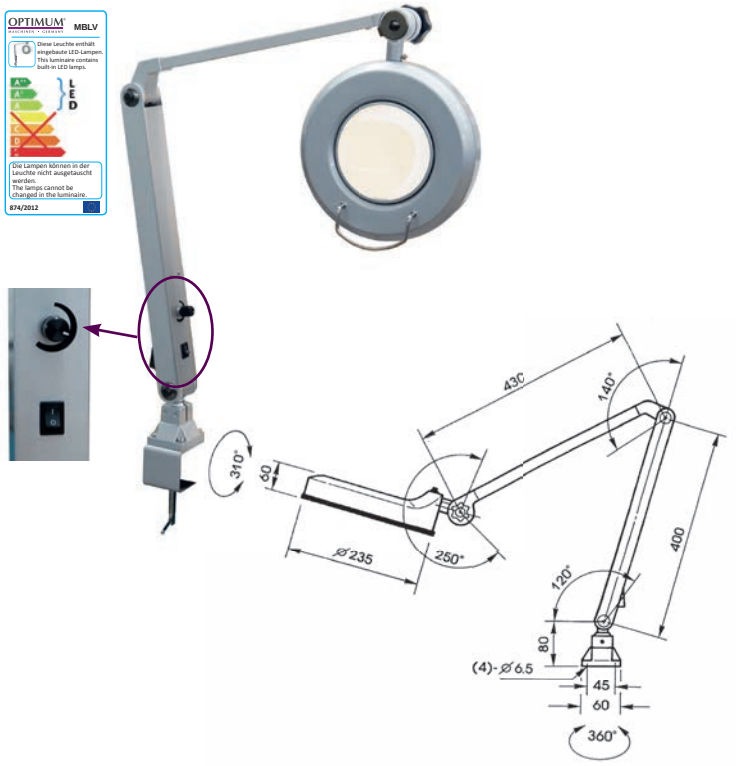






Model	LED magnifying lamp MBLV
Article no.	3351090

› Electrical connection 14 W / 230 V ~50 Hz
› Colour temperature 5 700 K ±5%
› Luminosity 2 200 Lm
› Large magnifying glass: 125 mm diameter
› Luminosity dimmable 10 - 100 %
› Joint easily adjustable and lockable thanks to clamp screw
› Pleasant, glare-free light
› Articulated arm length 830 mm
› I P Degree of protection: IP20
› Magnifying lamp with 1.5x optical magnification



Model	Machine lamp LED 3- 500
Article no.	3351010

› Electrical connection 3 x 1 W LED / 230 V ~50 Hz
› Colour temperature: 4 000 - 6 000 K
› Made of oil-resistant and impact proof plastic
› No impairment of the service life through vibration or knocks
› Optimum mobility of the articulated arm
› IP degree of protection IP64 (dust and splash-water protected)
› Lifetime 60 000 operating hours
› Low exterior temperature; lubricants and coolants do not burn on
› Mains supply cable approx. 1.2 m
› Energy-saving and durable machine lamp



Model	LED workbench lamp WBL 3
Article no.	3351062

› Electrical connection 3 x 1 Watt LED / 230 V ~50 Hz
› Luminosity 480 Lm
› Colour temperature: 5 700 K ±5%
› Articulated arm with sleeve for best possible mobility
› Excellent positional stability
› Swivel head
› Impact-proof, easy-to-clean plastic housing
› Articulated arm length 520 mm
› IP Degree of protection: IP20
› Magnetic base, fixing bracket
› Integrated transformer

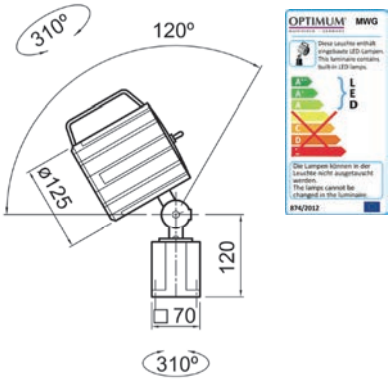


LED machine and workshop lamp

- › Electrical connection 6 x 2 Watt LED / 230 V ~50 Hz
- › Luminosity 1 020 Lm
- › Colour temperature 5 700 K ±5%
- › Robust and powerful articulated machine lamp
- › State of the art LED technology
- › Low exterior temperature; lubricants and coolants do not burn on
- › Reflection angle 60° (reflector)
- › Rotates through 310°
- › Maximum permissible ambient temperature Tmax. 50° C
- › LED service life › 60,000 hours
- › Degree of protection IP65, protection class I (operation with PE connection)
- › Aluminium housing
- › Swivel head
- › Base bracket-mounted

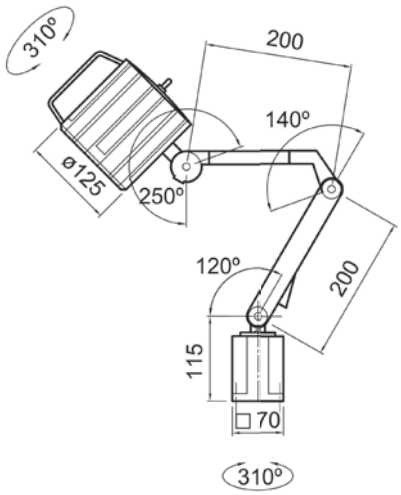
Model	MWG 6-100
Article no.	3351051
Foot size: 70 x 70 mm	





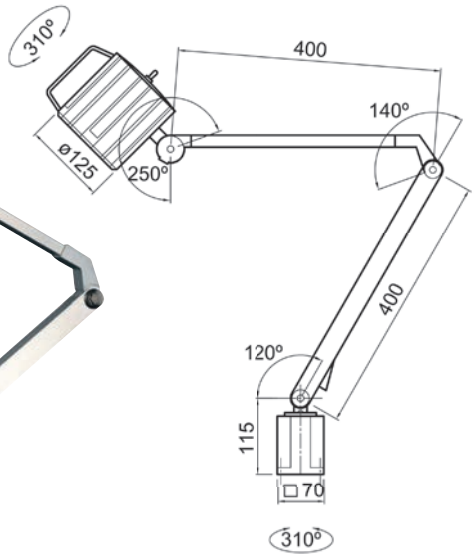
Model	MWG 6-600
Article no.	3351052
Foot size: 70 x 70 mm	
Arm length: 400 mm	
Arm type: Swivelling	





Model	MWG 6-720
Article no.	3351053
Foot size: 70 x 70 mm	
Arm length: 800 mm	
Arm type: Swivelling	



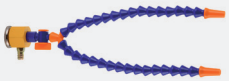
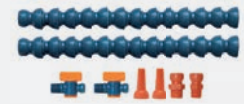


COOLANT ACCESSORIES







	Designation		Size	Article no.
	Coolant hose set 2 pcs. articulated hose; 300 mm 2 pcs. round nozzles, 1 pc. shut-off valve 1 pc. magnetic base		1/4"	3356700
			½"	3356801
	Coolant hoses 4 pcs. articulated hose; 150 mm		1/4"	3356701
	**Coolant hose set** 2 pcs. articulated hose; 150 mm 2 pcs. NPT connection 1/4" and 1/8" 3 pcs. round nozzle 1/16" / 1/8" / 1/4" 1 pc. flat nozzle		1/4"	3356702
	**Coolant hose set** 2 pcs. articulated hose; 150 mm 2 pcs. NPT connection 1/4" and 1/8" 3 pcs. round nozzle 1/16" / 1/8" / 1/4"		½"	3356802
	**Coolant hose set** 2 pcs. articulated hose; 150 mm 2 pcs. NPT connection 1/4" and 1/8" 2 pcs. round nozzle 1/8"/ 1/4" 2 pcs. shut-off valve		1/4"	3356703
	**Grips**		1/4"	3356710
			½"	3356810
	**Articulated hose** Hose roll 15 metres		1/4"	3356711
			½"	3356811
	**Circular nozzles**		1/4"	3356712
			½"	3356812
	**Flat nozzles** 5-hole 5 pcs.		1/4"	3356713
			½"	3356820
	**Flat nozzles** 5 pcs.		1/4"	3356714
			½“	3356813
	**Flat nozzle** 75 mm wide 2 pcs.		1/4"	3356715
			½"	3356814
	**Connector** Threaded connection RP3/8" 5 pcs.		1/4"	3356716
			½"	3356815
	**Connector** Threaded connection RP½" 5 pcs.		½"	3356816
	**Y connector** 5 pcs. 1/4" 2 pcs. ½"		1/4"	3356717
			½"	3356817
	**Cap** 5 pcs.		1/4"	3356718
			½"	3356818
	**Shut-off valve for Articulated hose** 2 pcs.	Threaded connection RP 1/4"	1/4"	3356719
		Threaded connection RP½"	½"	3356819

	Designation	Size	Article no.
	**Coolant hoses basic equipment** **1/4" - No. 1** › 8 pcs. articulated hoses 150 mm › 2 pcs. each round nozzle 1/16“ / 1/8“ / 1/4“, › 2 pcs. NPT coonnection 1/4" and 1/8", › 1 pc. flat nozzle, › 1 pc. Y-distributor, › 2 pcs. shut-off valve inside and outside, › 2 pcs. shut-off valve inside - 1/4", › 2 pc. NPT extension, › 1 pc. magnetic base, 1 pc. flexible sealing tape	1/4"	3356704
	**Coolant hoses basic equipment** **1/4" - No. 2** › 6 pcs. articulated hose 150 mm › 2 pcs. each round nozzle 1/16“ / 1/8“ / 1/4“, › 2 pcs. each NPT connection 1/4" and 1/8", › 5 pcs. flat nozzle, › 4 pcs. 90° nozzle, › 1 pc. Y-distributor, › 1 pc. shut-off valve, inside and outside, › 1 pc. shut-off valve, inside - 1/4" › 1 piece clamping tong	1/4"	3356705
	**Coolant hoses basic equipment** **1/2" - No. 1** › 6 pcs. articulated hose 150 mm › 2 pcs. each round nozzle 1/2" / 3/8" / 1/4", › 2 pcs. each NPT connection 1/4" and 1/2", › 1 pc. flat nozzle, › 3 pcs. 90° round nozzle 1/2" / 3/8" / 1/4", › 1 pc. Y-distributor, › 1 pc. shut-off valve, inside and outside, › 1 pc. shut-off valve, inside - 1/2" › 1 piece clamping tong	1/2"	3356800

Universal coolant unit 230 V — 3351999

› Max. delivery height 2.5 m / delivery rate 8 l/min
› Tank capacity 11 litres. / Size L x W x H: 370 x 245 x 170 mm
› Complete with tank, flexible tube, hose and switch/plug combination
› Magnetic base fastener for coolant hose



MMC1 coolant mist lubricator — 3356663

› Magnetic base with a holding force of 75 kg
› Base size L x W x H: 62 x 50 x 55 mm
› Screw connection for external compressed air supply
› Flexible and stable hose with a length of 500 mm



AQUACUT C1 — 3530030

› 10 litre cannister
› For mixing emulsions
› Drilling and cooling emulsion
› High-pressure resistant and containing mineral oil, for long tool life and clean surfaces
› Emulsifiable with water, microbe-resistant and kind to the skin



KMS 2 coolant hose — 3356660

› Insensitive to most solvents and chemicals
› Not electrically conductive
› Magnetic base holding force up to 50 kg
› Length of coolant hoses each 335 mm
› 6mm hose connection
› ¼“ coolant hoses



MEASURING ACCESSORIES



Accessories	Article no.
Precision magnetic measuring stand	3356650
› Measuring column Ø 12 mm x 181 mm	
› Transverse arm Ø 10 mm x 160 mm	
› Magnetic base L x W x H: 50 x 62 x 55 mm	
› Holding force 50 kg	
› Dial gauge holder with mounting hole for dial gauges, fine indicators, electrical length measuring probes	



Accessories	Article no.
Measuring and test platen	3385060
› Dimensions L x W x H: 630 x 400 x 100 mm	
› Precision 7 µ	
› Granite	
› Thermally and dynamically stable	
› Compressive strength 250 - 260 N/mm ²	
› DIN 876/0	
› Corrosion-free	



Accessories	Article no.
Dial gauge	3385090

› Precision as per DIN 878
› Metal housing matt chrome plated
› Clamping shaft 8 mm
› Pitch 0.01 mm
› Measuring range 10 mm
› Outer ring with two adjustable tolerance marks
› Scale rotatable via outer ring for easy zeroing



Accessories	Article no.
Machine spirit level	3385064

› With prismatic base for levelling horizontal surfaces and shafts
› Compact and stress-free installation of the longitudinal spirit level guarantees constant precision
› Precision 0.02 mm/m
› Horizontal and longitudinal spirit level as per DIN 2276 Form B
› Eliminates time-consuming adjustment work
› Heat protected handle
› Dimensions: 200 mm x 46 mm x 46 mm



PLEASE NOTE

› These offers are intended exclusively for business owners, retailers and tradespersons who are making a purchase in pursuit of their profession or self-employment. This constitutes an express CONDITION TO THE CONTRACT. Excluded from the sale are consumers in the sense of § 13 BGB (German Civil Code)
› The publication of this catalogue renders all previous price lists invalid.
› Prices are recommended retail prices, subject to change, in €, plus statutory VAT, plus packaging, shipping, transportation, unloading, installation and training costs as applicable.
› We accept no liability for printing errors, mistakes or incorrect representation.
› Subject to technical modifications and visual changes.
› Illustrations partly with optional accessories
› Delivery shall be made exclusively in accordance with our terms of delivery and payment.
› The machines are delivered partly knocked down for transportation reasons.
› All items are sold through specialist retailers.
› The goods shall remain our property until payment has been received in full.
› Our retention of title shall remain valid in case of sale to a third-party.
› Legal warranty conditions apply for businesses.
› Copying and reproduction in full or in part is subject to written approval by us.
› Please note that transport packaging surcharges apply for some machines in this catalogue to cover transport units, packaging and packaging overheads. These machines are appropriately marked in the catalogue.
› For products with a stated guarantee: Information on scope, duration, content and guarantor at www.optimum-machines.com or to be requested at Optimum Maschinen Germany GmbH.
› The entire catalogue is protected by copyright. Additionally, to protect our products, we register our rights to our brands, patents and designs where possible in each individual case. We take strong action against any violation of our intellectual property.

GENERAL NOTES ON OPERATING OUR MACHINES

› Our machines must be supervised at all times during operation. Leaving the machine during operations constitutes gross negligence.
› The details on machine precision are found in the technical data of the catalogue pages. If you do not find any values here, please contact info@optimum-maschinen.de for more detailed information.
› The stated precisions are achieved under standardised conditions (correct installation of the machine and ambient temperature of 20 °C). The machines are not designed for continuous operation.
› Please note that operators are required to make conversions in the event of installing third-party chucks or flanged chucks to reach the stated, technically possible rotating diameter.
› All machines are designed S6-60% operation.

OPERATION OF MACHINES WITH FREQUENCY CONVERTERS

› Electrical connection only by a qualified electrician
Machines with frequency inverters or inverters must not be operated via an ordinary plug. A permanent connection is required. The drive components conduct a high leakage current via the protective conductor. Touching conductive parts when the protective conductor is interrupted can result in death or serious injury.

› Building electrics:
In order to avoid tripping of residual current circuit breakers - if present in the building electrics - an all-current-sensitive residual current circuit breaker type B is required.
AC - sensitive AC type RCDs (AC only) are not suitable for frequency inverters. AC sensitive earth-leakage circuit breakers of type AC are no longer in use and are no longer permitted in Germany.