



WORKING METAL

Bench and upright drills
Drilling-milling machines
Lathes
Measuring instruments
Metal belt saws
Grinding machines
Polishing machines
Sheet metal working machines
and many more

Drilling

Milling

Turning

Measuring

Sawing

Grinding. Cutting. Polish

Quality at an affordable price - quantum metal working machines

The products

You're looking for a functional machine offering comprehensive features at an optimum value?

Then **quantum** metal working machines are the ones for you.

quantum machines offer outstanding equipment, precision manufacturing and the "OPTIMUM" in price and quality.

Your partners

There is a regional network of specialist dealers and contracting parties at your disposal giving you advice and support.

Our goal is to satisfy your requirements

For over 10 years now, we have been committed to developing, designing and manufacturing **OPTIMUM** and **quantum** products.

Any one of our products distinguishes itself by quality, accuracy, sustainability and consistent of value.

Our products are developed and manufactured to the most rigorous and exacting standards.

Our knowledge serves to constantly advance and improve our products.

Therefore your suggestions for improvements and requests are welcome at any time and we will take them into consideration.

The quality guarantee

Any **quantum** product is being produced respecting high quality requirements. The products are thoroughly inspected and leave our premises in excellent condition.

After-Sales-Service

Should you require our after-sales-service, you will not encounter any difficulties. Your specialist local dealer together with our experienced service personnel are available to help you at any time.

A comprehensive stock of spare parts is available at our premises, providing you with short-time supply as required. Our service guarantees the best use of your machine for many years.

The certification

Our **quantum** machines are delivered with detailed instruction manuals and parts lists as well as CE declarations of conformity. For milling machines and lathes, an acceptance certificate is attached.

Buying without risk

You acquire a **quantum** product at your confident specialist dealer on site.

Bench and upright drills

quantum B 140T / quantum B 140T Vario
quantum B 160T / quantum B 160T Vario
quantum B 13
quantum B 14
quantum B 16
quantum B 20 / quantum B 20 Vario
quantum B 25 / quantum B 25 Vario
quantum B 32 / quantum B 32 Vario

Radial bench and upright drills

quantum RB 3 T
quantum RB 6 T
quantum RB 8 S

Geared bench and upright drills

quantum B 30 GT
quantum B 28 GS
quantum B 30 GS
quantum B 40 GSP

Drilling-milling machine

quantum BF 16 Vario



Bench drills

quantum B 140 T / quantum B 160T “VARIO” model with continuous adjustable speed





quantum B 140 T



quantum B 160 T Vario

Model	quantum B 140 T	quantum B 160 T	quantum B 140 T VARIO	quantum B 160 T VARIO
Item No. (230 V)	300 7141	300 7161	301 1714	301 1716
€ (VAT excl.)	139.00	209.00	219.00	299.00
Extent of supply	<ul style="list-style-type: none"> · Quick-action drill chuck (0-13 mm) B16 · Machine lamp · Drill bit box 	<ul style="list-style-type: none"> · Quick-action drill chuck (0-13 mm) · Taper mandrel MT 2/B16 · Machine lamp · Drill bit box 	<ul style="list-style-type: none"> · Quick-action drill chuck (0-13 mm) B16 · Machine lamp · Drill bit box 	<ul style="list-style-type: none"> · Quick-action drill chuck (0-13 mm) · Taper mandrel MT 2/B16 · Machine lamp · Drill bit box
Technical data				
Drilling cap./steel (max.)	14 mm	16 mm	14 mm	16 mm
Working range	102 mm	126 mm	102 mm	126 mm
Distance spindle/table (max.)	300 mm	400 mm	300 mm	400 mm
Spindle holding fixture	B 16	MT 2	B16	MT 2
Spindle speeds	580 - 2.650 rpm	425 - 2,545 rpm	180 - 3,000 rpm	180 - 3,000 rpm
Sleeve travel	50 mm	60 mm	50 mm	60 mm
Table size L x W (extendable)	190 x 170 (280) mm	240 x 200 (330) mm	190 x 170 (280) mm	240 x 200 (330) mm
Size of base plate	320 x 190 mm	380 x 250 mm	320 x 190 mm	380 x 250 mm
Motor power 50 Hz	350 W	500 W	350 W	600 W
Dimensions (L x W x H)	410 x 240 x 730 mm	520 x 300 x 850 mm	410 x 240 x 730 mm	520 x 300 x 850 mm
Net weight	30 kg	39.5 kg	30 kg	39.5 kg

Bench and upright drills

quantum B 13 / quantum B 14 / quantum B 16 / quantum B 20 / quantum B 25 / quantum B 32

Bench- and upright drills stable and cost-efficient

Convincing arguments: quality, efficiency and price

- Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve
- Spindle with precision ball bearings
- Quantum high-grade quick-action drill chuck with concentricity precision less than 0.09 mm supplied as standard (from B 14 onwards)
- Smoother running due to aluminum pulleys with ground six-tooth dog (from B 14 onwards)
- Better power transmission due to the quality driving V-belt
- Long, ergonomically designed lever arm handles with softgrip for nonskid working
- Drill depth stop
- Precision-ground work table with transversally running T-slots, swivelling from -45° to +45° with 360° rotatability
- Solid, heavy duty base plate with T-slots, heavily ribbed at the backside
- T-slots for holding a vice supplied as standard (from B 14 onwards)
- 400 Volt models additional with right-left-hand rotation
- Powerful, smooth-running electric motors (from B 14 onwards)
- Proven quality



Model	quantum B 13	quantum B 14	quantum B 16	quantum B 20
Item No. (230 V)	300 8131	300 8141	300 8161	300 8201
€ (VAT excl.)	65.90	109.00	195.00	249.00
Item No. (400 V)	-	-	-	300 8203
€ (VAT excl.)	-	-	-	269.00

Extent of supply	quantum B 13	quantum B 14	quantum B 16	quantum B 20
	· Gear rim-drill chuck (1 - 13 mm) B16	· Quick-action drill chuck (0 - 13 mm) B16 · 2 T-nuts	· Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 2 · 2 T-nuts	· Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 2 · 2 T-nuts

Technical data	quantum B 13	quantum B 14	quantum B 16	quantum B 20
Drilling capacity in steel (max.)	13 mm	14 mm	16 mm	20 mm
Working range	104 mm	104 mm	125 mm	170 mm
Distance spindle/table (max.)	240 mm	330 mm	390 mm	450 mm
Spindle holding fixture	fixed / B 16	fixed / B 16	MT 2	MT 2
Spindle speeds	520 - 2,620 rpm	520 - 2,620 rpm	660 - 2,500 rpm	210 - 2,220 rpm
Number of steps	5 steps	5 steps	5 steps	12 steps
Sleeve travel	50 mm	50 mm	65 mm	80 mm
Upright diameter	46 mm	46 mm	60 mm	70 mm
Table size (L x W)	160 x 160 mm	160 x 160 mm	200 x 200 mm	275 x 275 mm
T-slot size	14 mm	14 mm	14 mm	14 mm
Drilling table swivel	+ / - 45°	+ / - 45°	+ / - 45°	+ / - 45°
Motor power 50 Hz	300 W	350 W	450 W	550 W
Dimensions (L x W x H)	420 x 220 x 580 mm	420 x 230 x 700 mm	510 x 270 x 820 mm	700 x 300 x 990 mm
Net weight	21 kg	24 kg	38 kg	56 kg



Convincing arguments...



- Smoother running due to aluminum pulleys with ground six-tooth dog (from B 14)
- Better power transmission due to the quality driving V-belt



- Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve
- Spindle with precision ball bearing
- quantum high-grade quick-action drill chuck supplied as standard



- Long ergonomically designed lever arm handles with softgrip for nonskid working
- Drill depth stop



- Automatic off-switch (IP 54 compliant) for easy operation with low-voltage release, lockable emergency stop switch and cam controller for right- and left-hand rotation in 400V types

Model	quantum B 25	quantum B 32
Item No.	300 8253	300 8323
€ (VAT excl.)	299.00	549.00
Extent of supply	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 3 · 2 T-nuts 	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 4 · 2 T-nuts
Technical data		
Drilling capacity in steel (max.)	20 mm	32 mm
Working range	170 mm	225 mm
Distance spindle/table (max.)	760 mm	600 mm
Spindle holding fixture	MT 3	MT 4
Spindle speeds	210 - 2,220 rpm	140 - 1,980 rpm
Number of steps	12 steps	9 steps
Sleeve travel	80 mm	125 mm
Upright diameter	70 mm	92 mm
Table size (L x W)	275 x 275 mm	360 x 360 mm
T-slot size	14 mm	14 mm
Drilling table swivel	+ / - 45°	+ / - 45°
Motor power 400 V / 50 Hz	550 W	1.1 kW
Dimensions (L x W x H)	690 x 390 x 1,570 mm	790 x 400 x 1,730 mm
Net weight	63 kg	138 kg

Infinitely variable bench and upright drills

quantum B 20 VARIO / quantum B 25 VARIO / quantum B 32 VARIO

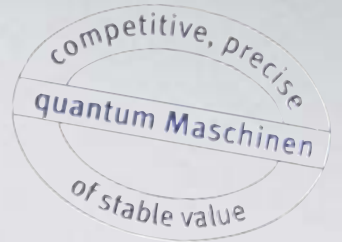
Bench and upright drills with continuous speed control



- Wide speed range from 15 - 3,500 rpm for quantum B 20 VARIO
- quantum B 25 VARIO
- 10 - 3,500 rpm for quantum B 32 VARIO

■ Smoother running due to aluminum pulleys with ground six-tooth dog

■ Anti-slip device and high quality power transmission due to the quality driving V-belt



- Automatic off-switch (IP 54 compliant) with low-voltage release lockable emergency stop switch, cam controller for right- and left-hand rotation

■ Quiet running and sustainable engine, at Vario model with frequency converter extremely powered, wide constant torque progression

- Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve

- Spindle with precision ball bearing

- quantum high-grade quick-action drill chuck supplied as standard

■ Long, ergonomically designed lever arm handles with softgrip for nonskid working

■ Drill depth stop

- Precision-ground work table with transversally running T-slots + / - 45° swivelling and 360° rotatability

■ Table height adjustment via rack

■ Extremely stable thick-walled drilling table support

- Solid, heavy duty base plate with T-slots, heavily ribbed at the back

■ Cast-iron upright is bolted with 5 screws for exceptional running smoothness and stability



Model	quantum B 20 Vario	quantum B 25 Vario	quantum B 32 Vario
Item No.	301 1420	301 1425	301 1432
€ (VAT excl.)	850.00	890.00	1,190.00
Extent of supply	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 2 	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 3 	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 4
Technical data			
Drilling capacity in steel (max.)	20 mm	20 mm	32 mm
Working range	170 mm	170 mm	225 mm
Distance spindle/table (max.)	450 mm	760 mm	600 mm
Spindle holding fixture	MT 2	MT 3	MT 4
Spindle speeds	15 - 3,500 rpm	15 - 3,500 rpm	10 - 3,500 rpm
Number of steps	12 steps	12 steps	9 steps
Sleeve travel	80 mm	80 mm	125 mm
Upright diameter	70 mm	70 mm	92 mm
Drilling machine table inclinable	+ / - 45°	+ / - 45°	+ / - 45°
Table size (L x W)	275 x 275 mm	275 x 275 mm	360 x 360 mm
T-slot size	14 mm	14 mm	14 mm
Motor power 230 V / 50 Hz	550 W	550 W	1.1 kW
Dimensions (L x W x H)	700 x 300 x 990 mm	690 x 390 x 1,570 mm	790 x 400 x 1,730 mm
Net weight	56 kg	63 kg	138 kg

Radial bench and upright drills

quantum RB 3 T / quantum RB 6T / quantum RB 8S

Powerful radial drill with large working range



Smooth running due to aluminum pulleys and ground six-tooth driver

High quality power transmission by toothed quality drive belt

User-friendly automatic off-switch according to IP 54 with low-voltage release

Powerful, smooth-running aluminum electric motor

EMERGENCY-STOP button (for RB 6 T and RB 8 S)

Drill depth stop

Guaranteed concentricity precision less than 0.03 mm measured in the drilling spindle sleeve

Long, ergonomically designed lever arm handles with softgrip for nonskid working

Spindle with precision ball bearing

High-grade gear rim chuck supplied as standard

Drill chuck guard

Table height adjustment via rack (only RB 6T and RB 8S)

Precision-ground work table with mounting holes for expanded table rest

Thick-walled steel upright ensures very smooth running and stability

Solid, heavy duty base plate with T-slots, heavily ribbed at the rear

The drill head is + / - 45° inclinable

Working range variable by moving the drill head

The work table is inclinable by + / - 45°





Model	quantum RB 3 T	quantum RB 6 T	quantum RB 8 S
Item No.	300 9131	300 9161	300 9181
€ (VAT excl.)	169.00	229.00	299.00

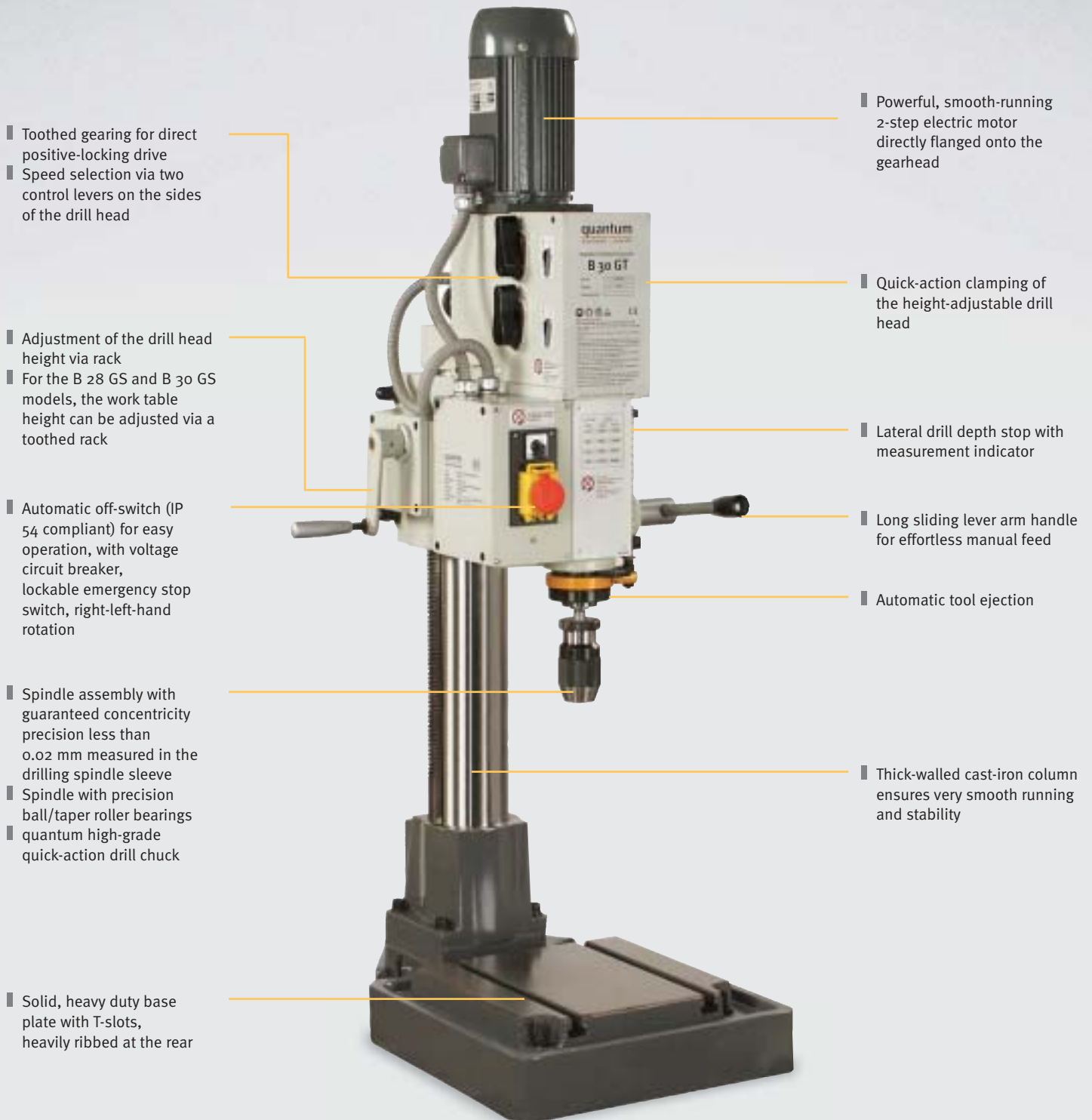
Extent of supply	<ul style="list-style-type: none"> · Gear rim-drill chuck (1 - 13 mm) B16 · Drill chuck guard 	<ul style="list-style-type: none"> · Gear rim-drill chuck (1 - 16 mm) B16 · Taper mandrel MT 2 · Drill chuck guard 	<ul style="list-style-type: none"> · Gear rim-drill chuck (1 - 16 mm) B16 · Taper mandrel MT 2 · Drill chuck guard
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Technical data	quantum RB 3 T	quantum RB 6 T	quantum RB 8 S
Drilling capacity (max.)	13 mm	16 mm	16 mm
Working range	100 - 350 mm	115 - 430 mm	115 - 430 mm
Distance spindle/table (max.)	250 mm	380 mm	740 mm
Distance spindle/stand (max.)	350 mm	550 mm	1250 mm
Spindle holding fixture	B 16	MT 2	MT 2
Spindle speeds, 5 steps	390/900/1,500/2,200/3,000 rpm	390/900/1,500/2,200/3,000 rpm	390/900/1,500/2,200/3,000 rpm
Sleeve travel	100 mm	80 mm	80 mm
Upright diameter	46 mm	60 mm	70 mm
Table size (L x W)	195 x 220 mm	225 x 230 mm	262 x 262 mm
Table inclinable	+ / - 45°	+ / - 45°	+ / - 45°
Motor power 230 V/50 Hz	400 W	750 W	750 W
Dimensions (L x W x H)	710 x 250 x 735 mm	820 x 290 x 930 mm	820 x 290 x 1,640 mm
Net weight	26 kg	40 kg	63 kg

Geared bench and upright drills

quantum B 30 GT / quantum B 28 GS / quantum B 30 GS

Geared bench drill universally usable for shops and industry





Model	quantum B 30 GT	quantum B 28 GS	quantum B 30 GS
Item No.	333 4303	333 4283	333 4313
€ (VAT excl.)	1,100.00	1,790.00	2,090.00
Extent of supply	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 3 	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 3 	<ul style="list-style-type: none"> · Quick-action drill chuck (0 - 16 mm) B16 · Taper mandrel MT 3
Technical data			
Drilling capacity in steel (max.)	30 mm	30 mm	30 mm
Drilling capacity in cast iron (max.)	38 mm	38 mm	38 mm
Threading in steel	M 12	M 12	M 12
Threading in cast iron	M 16	M 16	M 16
Working range	225 mm	225 mm	315 mm
Distance spindle/table (max.)	-	30 - 600 mm	30 - 660 mm
Distance spindle/stand (max.)	405 mm	1,075 mm	1,200 mm
Spindle holding fixture	MT 3	MT 3	MT 3
Spindle speeds, 8 steps	100 - 2,900 rpm	100 - 2,900 rpm	100 - 2,900 rpm
Sleeve travel	140 mm	140 mm	140 mm
Upright diameter	100 mm	100 mm	125 mm
Working surface table (L x B)	-	310 x 360 mm	480 x 375 mm
Working surface base (L x B)	300 x 305 mm	305 x 297 mm	400 x 475 mm
T-slot size	14 mm	14 mm	14 mm
Motor power, 2 steps	750 W / 400 V / 50 Hz	750 W / 400 V / 50 Hz	750 W / 400 V / 50 Hz
Dimensions (L x W x H)	580 x 400 x 1,230 mm	550 x 470 x 1,700 mm	780 x 490 x 1,830 mm
Net weight	140 kg	270 kg	440 kg

Geared upright drill

quantum B 40 GSP

Heavy geared appliance and threading mechanism

Convincing arguments: quality, efficiency and price

- Heavy-duty, solid cast-iron construction
- Thick-walled cast-iron column provides for smooth running and stability
- Smooth running due to ground gearwheels
- Automatic gearwheel lubrication via oil pump
- High concentricity precision due to stable work spindle, hardened and ground
- 9 selectable speeds via gear shifting lever at the front of the drill head and two-stage driving motor provides for 18 speeds
- Lamp integrated in the drill head for illumination of the work table
- Heavy duty, solid drilling table, precision-ground with intersecting T-slots, heavily ribbed at the underside
- Height-adjustable via rack
- Solid mounting base with T-slots, precision-ground
- Integrated coolant pump and coolant tank
- Threading attachment
- Automatic spindle sleeve drive



- Height-adjustable eye-protective screen with microswitch for best possible protection for the user
- Automatic sleeve feed
- Easy tool change by ejection appliance

Extent of supply:

- Quick-action drill chuck \varnothing - 16 mm
- Taper mandrel MT 4 / B 16
- Drilling table illumination
- Coolant appliance

Model	quantum B 40 GSP
Item No.	333 4403
€ (VAT excl.)	3.290.00

Technical data	
Drilling capacity in steel (max.)	35 mm
Drilling capacity in cast iron (max.)	45 mm
Threading in steel (max.)	M 24
Threading in cast iron (max.)	M 30
Working range	350 mm
Distance spindle/table (max.)	780 mm
Distance spindle/base (max.)	1,320 mm
Spindle holding fixture	MT 4
Spindle speeds	50 - 1,450 rpm
Number of steps	18
Sleeve travel	180 mm
Autom. spindle sleeve feed	2 steps / 0.1 - 0.2 mm/rev.
Upright diameter	150 mm
Working surface table (L x B)	560 x 560 mm
Working surface base (L x B)	510 x 500 mm
T-slot size	18 mm
Motor power 400 V / 50 Hz	1.5 kW
Dimensions (L x W x H)	730 x 560 x 2,220 mm
Net weight	580 kg



Optionales accessories:

■ Machine vice

Industrial quality drill machine vice with removable prismatic jaws, precision-ground, for universal use (Item No.: 300 0214; € (VAT excl.) 149.00)
More Accessories from page 16 onwards



- 9 selectable speeds via gear shifting lever at the front of the drill head and two-stage driving motor provides for 18 speeds

- Adjustable drill depth stop with millimetre scale

- Emergency stop switch

- Automatic sleeve feed with 2 speeds

- Drilling machine table light

- Heavy duty, thick-walled cast iron column for smooth running and stability



- Heavy duty, solid drilling table precision-ground with intersecting T-slots, heavily ribbed at the rear

- Height-adjustable via rack

- Rotation of 360° about its own axis and about the upright

- Integrated coolant system and coolant tank

- Solid mounting base with T-slots, precision-ground

- May be used for tall workpieces with the work table swivelled to one side

Accessories for drills

Reducing bushes	Item No.	€ (VAT excl.)
MT 3 - MT 2	305 0663	6.90
MT 4 - MT 3	305 0664	10.90
MT 4 - MT 2	305 0665	11.90



Morse tapers	Item No.	€ (VAT excl.)
MT 2 - B16	305 0659	4.90
MT 3 - B16	305 0660	7.90
MT 4 - B16	305 0661	12.90
MT 5 - B16	305 0675	15.90
MT 6 - B16	305 0676	19.90



Extension bushes	Item No.	€ (VAT excl.)
MT 2 - MT 3	305 0667	25.00
MT 3 - MT 4	305 0668	29.00



quantum precision quick-action drill chucks	Item No.	€ (VAT excl.)
Concentricity precision less than 0.06 mm		
o - 8 mm; B16	305 0608	25.00
o - 10 mm; B16	305 0610	29.00
o - 13 mm; B16	305 0623	31.00
o - 16 mm; B16	305 0626	39.00



Taper drift	Item No.	€ (VAT excl.)
MSP 1 for MT 1 - MT 3	305 0636	22.00
MSP 2 for MT 4 - MT 6	305 0637	27.00



Threading attachment M5 - M12	Item No.	€ (VAT excl.)
Integrated quick return traverse immediately effective when changing the feed direction	335 2042	299.00
4-stage adjustable friction clutch		
With holding fixture B16		



Universal-coolant system	Item No.	€ (VAT excl.)
Lift max. 2.5 m		
Flow rate 3.5 ltrs./min.		
With tank, flexible tube, hose		
With German switch/plug combination		
Tank capacity 11 ltrs.		
Magnetic base attachment of the coolant hose		
For self-assembly		
Universal coolant system 230 V	335 2002	179.00
Universal coolant system 400 V	335 2001	189.00



Halogen working light AL 20	Item No.	€ (VAT excl.)
With magnetic base and mounting plate	335 1140	69.00
230 V connection		
Integrated transformer		
12 V light		



Halogen working light AL 30	Item No.	€ (VAT excl.)
With mounting plate	335 1150	89.00
230 V connection		
Integrated transformer		
12 V light		
Stable aluminum light housing to protect against water, oil, dust and impacts		



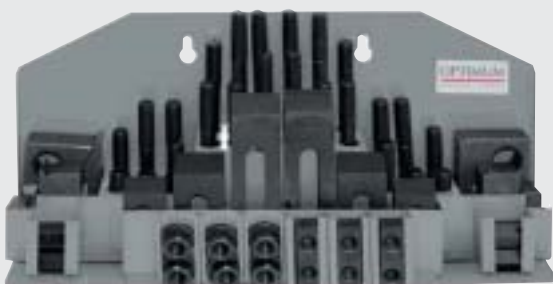
Twist drills HSS with morse taper	Item No.	€ (VAT excl.)
MT2: 14.5/16/18/20/22/24/26/28/30mm	305 1002	75.00
MT3: 14.5/16/18/20/22/24/26/28/30mm	305 1003	79.00
<ul style="list-style-type: none"> Wooden case 		



Titanium twist drill kit 13 mm; 25-pcs	Item No.	€ (VAT excl.)
1 - 13 mm	305 1010	28.00
<ul style="list-style-type: none"> Metal box 		



OPTIMUM clamping tool kit SPW 52 pcs		
<ul style="list-style-type: none"> Handy wall unit Metric threads 24 pieces retention knobs 6 pieces T-nuts 6 pieces nuts 4 pieces extension nuts 6 pieces tension mould 6 pieces tension blocks 		
SPW 8	335 2015	69.00
T-nuts (10 mm size) draw bar thread M 8		
SPW 10	335 2016	75.00
T-nuts (12 mm size) draw bar thread M 10		
SPW 12	335 2017	79.00
T-nuts (14 mm size) draw bar thread M 12		
SPW 14	335 2018	89.00
T-nuts (16 mm size) draw bar thread M 14		



Machine vices MSO with prismatic jaws	Item No.	€ (VAT excl.)
MSO 75 B 75 x S 55 mm	300 0075	11.90
MSO 100 B 100x S 90 mm	300 0100	13.90
MSO 125 B 125 x S 110 mm	300 0125	16.90
MSO 150 B 150 x S 130 mm	300 0150	19.90
B = Jaw width; S = Clamping capacity		



Machine vices BMS with prismatic jaws	Item No.	€ (VAT excl.)
BMS 85 B 85 x S 70 mm	300 0008	26.00
BMS 100 B 100x S 90 mm	300 0010	36.00
BMS 120 B 120x S 110 mm	300 0012	46.00
BMS 150 B 150 x S 130 mm	300 0015	56.00
BMS 200 B 200 x S 160 mm	300 0020	69.00
B = Jaw width; S = Clamping capacity		



Machine vice Opti BSI 140	Item No.	€ (VAT excl.)
Industrial quality drill machine vice with removable prismatic jaws, precision-ground for universal use	300 0214	149.00
<ul style="list-style-type: none"> Jaw width 140 mm Clamping capacity 150 mm Net weight 18 kg 		



Drilling-milling machine

quantum BF 16 Vario

Small economical milling machine for the professional user for the hobbyist and model maker

Convincing arguments: quality, efficiency and price

- Wide range of applications
- With dynamic infinitely variable drive from 100 to 3000 rpm
- Milling head is turnable to any direction by 90° and thus allows milling and drilling operation in every angle position
- Upright laterally adjustable for further application
- Simple and clear operation
- User-friendly automatic switch according to IP 54 with low-voltage release
- Scale collars for all axes are adjustable
- Spindle holding fixture MT2
- Clearance freely adjustable dovetail slideways on all 3 axes
- Unrestricted milling access through clampable guideways
- Produced according to toolmaker's precision with test certificate
- Cost-efficient and of stable value



Extent of supply:

- Draw-in rod M 10
- Morse taper MT2/B16
- Operating tools

Optional accessories:

- **Universal substructure**
with lockable door and shelf
L x W x H: 420 x 340 x 800 mm

Optional accessories:

- **Attached adaptor** (without engine)
A high speed engine can be assembled at the upright
(up to 26.000 rpm).
L x W x H: 100 x 195 x 170 mm
Seat: ø 42 mm

Model	BF 16 Vario
Item No.	333 8116
€ (VAT excl.)	790.00

Technical data	
Drilling capacity (max.)	16 mm
Milling capacity of cutter head	(max.) 63 mm
Milling capacity of end mill cutter	(max.) 20 mm
Distance spindle/table (max.)	285 mm
Working range	175 mm
Spindle holding fixture	MT 2 / M 10
Spindle speeds	100 - 3,000 rpm
Sleeve travel	50 mm
T-slot size	10 mm, distance 35 mm
Table size (L x W)	400 x 120 mm
Drill head swivel angle	180°
Travel Z - axis ^{*)}	210 mm
Travel Y - axis ^{*)}	160 mm
Travel X - axis ^{*)}	220 mm
Motor power 230 V / 50 Hz	500 W
Dimensions (L x W x H)	510 x 450 x 760 mm
Net weight	60 kg

*Guideways travel are briefer during use of measuring gibs for digital displays



Optional accessories:

- **Attached adaptor**
For assembling of upright and milling head at
the engine bed of the turning machines:
OPTI D 240 / D 280, quantum D 250



Optional accessories:

- **Digital magnetic measuring system MPA 3 kit**
Item No.: 338 3911
refer to page 42

New

- User-friendly automatic off-switch according to IP 54 with lockable emergency-stop button
- Continuous speed adjustment from 100 to 3000 rpm
- Simple and clear operation

- Precise running due to taper roller bearing less than 0.015 mm measured in the sleeve



- Groove milling by picking-up the cutter with the draw-in collet chuck
- Tool holding fixture MT2 /M10
- Precision worked cross table with T-slots and coolant gutter
- Incorporated length measuring scale

- Feed spindles adjustable free from play



BF 16 Vario - illustration with optional collet chuck holder and cutter

- 2-step gear transmission



- Drilling-milling head inclinable +/- 90° to both sides for milling and drilling works in angular position as required

- Clear surface of milled work by individually clampable guidances
- Stable and precise dovetail guidance with V-ledges free from play to all 3 axes



- Upright movable laterally

- Correct feed motion with positionable graduated collar on all handwheels

- Adjustable limit stops

Accessories	Item No.	€ (VAT excl.)
■ Universal substructure	335 3002	169.00
■ Collet chuck kit 5 pcs. MT2/M10 4/6/8/10/12 mm direct clamping	335 1980	89.00
■ Collet chuck holder MT2/M10 (ER 25)	335 2044	99.00
■ Collet chuck kit 1-16 mm, 15 pcs. ER 25	344 1109	240.00
■ Quick-action drill chuck (0 - 13 mm); B16	305 0623	31.00
■ MT for taper mandrel MT2/M10/B16	305 0670	14.90
■ Milling cutter kit 12 pcs (4 - 5 - 6 - 8 - 10 - 12) each size with 2 and 4 cutting edges, TIN	335 2113	55.00

Accessories	Item No.	€ (VAT excl.)
■ Cutting holding taper MT2/M10/B16	335 2102	39.00
■ Machine vice FMSN 100	335 4110	219.00
■ Triaxial vice MV3 - 75	335 4175	149.00
■ Triaxial vice MV3 - 125	335 4178	199.00
■ Vice with two axis ZAS 50	335 4170	89.00
■ 3-axis position display MPA 3	338 3911	799.00
■ Factory assembly MPA 3 with material	900 0420	580.00
■ Adaptor for D 240/D 280 /D 250	335 6568	89.00
■ Adaptor (high speed motor)	335 6567	89.00

Milling

Lathes

and accessories



quantum[®]
MASCHINEN - GERMANY

quantum D 140 x 250 VARIO

The compact lathe. Ideal for model makers

Convincing arguments: quality, efficiency and price

- Electronic continuous speed regulation with dynamically adjustable control with exceptionally high capacity from 120 rpm upwards
- D.C. motor with permanent speed monitoring
- High concentricity precision due to high manufacturing precision
- Guaranteed concentricity precision of the main spindle less than 0.015 mm
- Spindle bedding with precision ball bearings
- Completely equipped with automatic feed and extensive accessories
- Prismatic bed made from ground grey cast iron hardened and superfinished
- Feed shaft for threading or automatic straight turning
- Change gear kit for threading
- Taper roller bearing in P5 quality
- Rolled trapezoid spindle
- Thrust bearing
- Leadscrew run on two porous bearings
- CE-compliant safety requirements
- Automatic off-switch for easy operation
- Cost-efficient, precise and of stable value

New



Model	D 140 x 250 VARIO
Item No.	342 0251
€ (VAT excl.)	490.00

Technical data	
Centre height	70 mm
Turning diameter (max.)	140 mm
Distance between centres ^{*)}	250 mm
Bed width	70 mm
Spindle hole	11 mm
Spindle taper	MT 1
Spindle speeds, continuous	120 - 3,000 rpm
Pitch - Metric	0.5 - 1.5 mm/rev
Tailstock taper	MT 1
Longitudinal feeds	0.05 - 0.1 mm/rev
Top slide travel ^{*)}	40 mm
Cross slide travel ^{*)}	70 mm
Tailstock-sleeve travel	30 mm
Motor power 230 Volt / 50 Hz	450 Watt
Dimensions (L x W x H)	550 x 320 x 260 mm
Net weight	19 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 80 mm
- Steady centre MT 1
- Lathe chuck protection
- Rear splash guard
- Chip pan
- Double tool holder
- Change gear kit
- Test certificate

Accessories	Item No.	€ (VAT excl.)
■ 3-jaw chuck Ø 80 mm	344 0287	55.00
■ 4-jaw chuck Ø 72 mm	344 0288	65.00
■ Follow rest	344 0283	10.00
■ Steady rest	344 0284	15.00
■ Draw-in collet chuck ER 16	344 0281	39.00
■ Collet kit 12 pcs., ER 16, 1 - 10 mm	344 0282	179.00
■ Cutting tool kit 11 pcs., 8 mm	344 1008	59.90
■ Quick-action tool holder SWH AA	338 4311	250.00
■ Factory assembly SWH	900 0401	60.00
■ Single tool holder 13x50 type D	338 4312	49.00

More accessories from page 36 onwards

Convincing arguments...



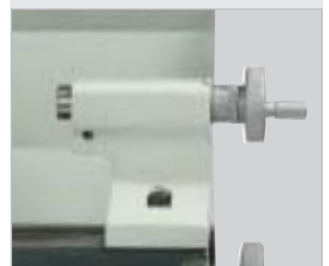
- Electronic continuous speed regulation with dynamically adjustable control, with a extraordinary high capacity from 120 rpm upwards
- Leading spindle connectable and disconnectable



- Change gear kit for threading
- Easy and fast speed change via V-belts



- Precision-machined slide
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Double tool holder
- All guideways adjustable without clearance due to tapered gibs



- Tailstock sleeve and handwheel with adjustable precision scaling of 0.02 mm
- Solid prismatic bed made of grey cast iron, hardened and superfinished

quantum D 210 x 400 / quantum D 250 x 400 / quantum D 250 x 550

Lathes for the demanding user.

quantum D 250 "VARIO" - type with continuous speed control and frequency converter **"Made in Germany"** (quantum D 210 x 400 Vario with DC-drive)

Convincing arguments: quality, efficiency and price

- Precision-manufactured
- Concentricity precision - lathe chuck smaller than 0.05 mm
- Concentricity precision - spindle nose smaller than 0.009 mm
- With saddle slide, compound slide and cross slide
- Automatic longitudinal/leadscrew drive
- Hardened work spindle with 2 adjustable taper roller bearings
- Taper roller bearings in P5 quality
- Rolled trapezoid spindle
- Thrust bearing
- Leadscrew run on two porous bearings
- Leadscrew for threading or automatic longitudinal feed
- Massive, maturated prismatic bed may of grey cast iron, maturated at least for six months inductively hardened (HRC 42-52) and precision-ground
- User-friendly automatic off-switch according to IP 54 with low-voltage release, EMERGENCY-STOP button and right-handed/left-handed rotation
- quantum D 250 "Vario" type with frequency converter, thus with extreme engine power and almost constant course of torque
- High-grade lathe chuck protection
- Manufactured according to DIN 8606 (toolmaker's precision)
- High value stability



D 210 x 400

Model	D 210 x 400	D 250 x 400	D 250 x 550
Item No. (230 V)	342 0321	342 0400	342 0550
€ (VAT excl.)	859.00	959.00	995.00
Item No. (400 V)	-	342 0403	342 0553
€ (VAT excl.)	-	959.00	995.00

Model	D 210 x 400 Vario*	D 250 x 400 Vario*	D 250 x 550 Vario*
Item No. (230 V)	342 0324	342 0404	342 0554
€ (VAT excl.)	1,190.00	1,650.00	1,690.00

Technical data	D 210 x 400	D 250 x 400	D 250 x 550
Centre height	105 mm	125 mm	125 mm
Distance between centres ¹⁾	400 mm	450 mm	550 mm
Turning diameter (max.)	210 mm	250 mm	250 mm
Spindle hole	21 mm	21 mm	21 mm
Spindle taper	MT 3	MT 3	MT 3
Spindle speeds	125 - 2,000 rpm	125 - 2,000 rpm	125 - 2,000 rpm
Number of steps	6 steps	6 steps	6 steps
*Spindle speeds Vario	150 - 2,200 rpm	20 - 2,200 rpm	20 - 2,500 rpm
Pitch - Metric	0.4 - 3.5 mm/rev	0.4 - 3.5 mm/rev	0.4 - 3.5 mm/rev
Pitch - Inch	10 - 44 TPI	10 - 44 TPI	10 - 44 TPI
Longitudinal feeds	0.1 - 0.2 mm/rev	0.1 - 0.2 mm/rev	0.1 - 0.2 mm/rev
Top slide travel ¹⁾	70 mm	70 mm	70 mm
Cross slide travel ¹⁾	110 mm	110 mm	110 mm
Tailstock taper	MT 2	MT 2	MT 2
Tailstock -sleeve travel	70 mm	70 mm	70 mm
Motor power 50 Hz	750 W	750 W	750 W
Dimensions (L x W x H)	880 x 500 x 475 mm	865 x 500 x 500 mm	1,015 x 500 x 500 mm
Net weight	80 kg	96 kg	125 kg

*Guideways travel are briefer during use of measuring gibs for digital displays



Standard accessories

Extent of supply:

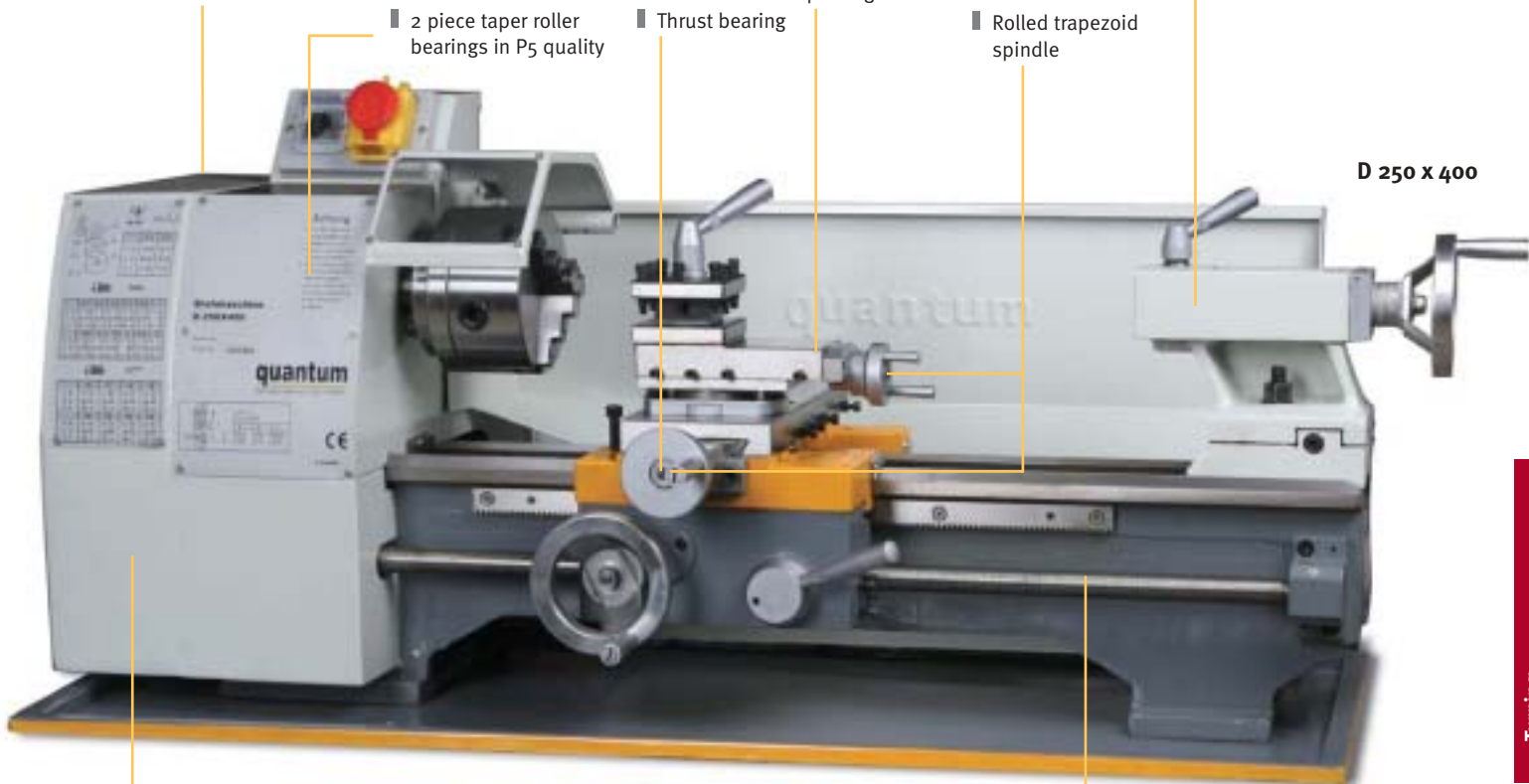
- 3-jaw chuck Ø 100 mm (D210)
- 3-jaw chuck Ø 125 mm (D250)
- Fixed centre MT2
- Fixed centre MT3
- Lathe chuck protection
- Lathe dog
- HSS cutting tools
- Rear splash guard
- Chip pan
- Quadruple tool holder
- Operating tools
- Change gear kit 10 pcs. from 0.4 to 3 mm and inch-based (10-44 TPI) thread
- Test certificate



Optional accessories:
Digital magnetic measuring system MPA 3
refer to page 42

- Precision-machined slide
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Quadruple tool holder
- All guideways adjustable due to tapered gibs

- Tailstock adjustable for taper turning
- Tailstock sleeve and handwheel with adjustable precision scaling of 0.02 mm



■ 2 piece taper roller bearings in P5 quality

■ Thrust bearing

■ Rolled trapezoid spindle

D 250 x 400

- Change gear kit for threading
- Easy and fast speed change via V-belts



- Induction-hardened and precision-ground solid prismatic bed made of grey cast iron (HRC 42-52)

- Leadscrew run on two porous bearings



Accessories D 210	Item No.	€ (VAT excl.)
■ RÖHM 3-jaw chuck Ø 100 mm	344 1010	269.00
■ RÖHM 4-jaw chuck Ø 100 mm	344 1012	299.00
■ Lathe chuck flange Ø 100 mm	344 0312	70.00
■ Lathe chuck flange Ø 125 mm	344 0313	70.00
■ Face plate Ø 200 mm	344 0352	50.00
■ Revolving centre MT 2	344 0702	45.00
■ Steady rest	344 0315	45.00
■ Follow rest	344 0310	45.00
■ Cutting tool kit 11 pcs, 10 mm	344 1108	59.90
■ Cutting tool kit 7 pcs, 10 mm	344 1111	110.00
■ Collet chuck holder ER 25	344 0305	70.00
■ Collet chuck holder ER 32	344 0306	79.00
■ Collet kit ER 25, 15 pcs, 1 - 16 mm	344 1109	240.00
■ Collet kit ER 32, 18 pcs., 3 - 20 mm	344 1122	260.00
■ Quick-action tool holder SWH 1-A	338 4301	350.00
■ Factory assembly SWH	900 0401	60.00
■ Digital magnetic measuring system MPA 3 kit	338 3903	799.00
■ Factory assembly MPA 3 with material	900 0420	580.00

More accessories from page 36 onwards

Accessories D 250	Item No.	€ (VAT excl.)
■ RÖHM 3-jaw chuck Ø 125 mm	344 1025	279.00
■ RÖHM 4-jaw chuck Ø 125 mm	344 1027	319.00
■ Lathe chuck flange Ø 125 mm	344 0511	70.00
■ Face plate Ø 250 mm	344 0552	50.00
■ Revolving centre MT2	344 0702	45.00
■ Steady rest	344 0515	45.00
■ Follow rest	344 0510	45.00
■ Cutting tool kit 11 pcs 10 mm	344 1108	59.90
■ Cutting tool kit 7 pcs 10 mm	344 1111	110.00
■ Collet chuck holder ER 25	344 0505	80.00
■ Collet chuck holder ER 32	344 0506	90.00
■ Collet kit ER 25, 15 pcs, 1 - 16 mm	344 1109	240.00
■ Collet kit ER 32, 18 pcs., 3 - 20 mm	344 1122	260.00
■ Quick-action tool holder SWH 1-A	338 4301	350.00
■ Factory assembly SWH	900 0401	60.00
■ Substructure D 250 x 400	344 0407	230.00
■ Substructure D 250 x 550	344 0507	230.00
■ Digital magnetic measuring system MPA 3 kit	338 3903	799.00
■ Assembly MPA 3 with mounting material	900 0420	580.00

quantum D 320 x 630 / quantum D 320 x 630 Vario quantum D 320 x 920 / quantum D 320 x 920 Vario

Completely equipped screw cutting and bar lathes with oil-quenched feedgear mechanism.
“VARIO” type with frequency converter **“Made in Germany”**

Convincing arguments: quality, efficiency and price

- Spindle holding fixture Camlock ASA D 1 - 4"
- Oil-quenched hardened work spindle bedded in two adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Smooth-running work spindle gearwheels, hardened and precision-ground
- Leadscrew and feed shaft drive easily switchable via oil-quenched feed gear
- Blocking mechanism avoids simultaneous use of leadscrew drive and feed shaft drive
- Adjustable friction clutch of the feed shaft
- The tailstock may be shifted +/- 10 mm for taper turning
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Low-voltage release, EMERGENCY-STOP button and protective motor switch
- Removable bed gap
- Electrical system by Siemens
- Cover for leading spindle
- “Vario” type with German frequency converter
- Manufactured according to DIN 8,606 (toolmaker’s precision)



- “VARIO” type with frequency converter with extremely high motor power and a notably constant torque curve
- Variable speeds from **10 - 2,500 rpm**

Model	D 320 x 630	D 320 x 630 VARIO	D 320 x 920	D 320 x 920 VARIO
Item No.	340 0633	340 0635	340 0923	340 0925
€ (VAT excl.)	2,850.00	4,150.00	2,990.00	4,290.00

Technical data	D 320 x 630	D 320 x 630 VARIO	D 320 x 920	D 320 x 920 VARIO
Centre height	160 mm	160 mm	160 mm	160 mm
Distance between centres ¹⁾	630 mm	630 mm	920 mm	920 mm
Turning diameter (max.)	320 mm	320 mm	320 mm	320 mm
Turning-Ø over saddle	178 mm	178 mm	178 mm	178 mm
Turning-Ø without bridge	430 mm	430 mm	430 mm	430 mm
Length of bed bridge	115 mm	115 mm	115 mm	115 mm
Spindle hole	38 mm	38 mm	38 mm	38 mm
Spindle holding fixture	ASA D 1 - 4"	ASA D 1 - 4"	ASA D 1 - 4"	ASA D 1 - 4"
Spindle taper	MT 5	MT 5	MT 5	MT 5
Spindle speeds	65 - 1,800 rpm	10 - 2,500 rpm	65 - 1,800 rpm	10 - 2,500 rpm
Number of steps	18 steps	continuous	18 steps	continuous
Pitch - Metric (26)	0.4 - 7 mm	0.4 - 7 mm	0.4 - 7 mm	0.4 - 7 mm
Pitch - Inch (34)	4 - 56 TPI	4 - 56 TPI	4 - 56 TPI	4 - 56 TPI
Longitudinal feeds (32) mm/rev	0.052 - 1.392	0.052 - 1.392	0.052 - 1.392	0.052 - 1.392
Crossfeeds (32) mm/rev	0.014 - 0.380	0.014 - 0.380	0.014 - 0.380	0.014 - 0.380
Bed width	187 mm	187 mm	187 mm	187 mm
Top slide travel ¹⁾	85 mm	85 mm	85 mm	85 mm
Cross slide travel ¹⁾	165 mm	165 mm	165 mm	165 mm
Tailstock taper	MT 3	MT 3	MT 3	MT 3
Tailstock -sleeve travel	110 mm	110 mm	110 mm	110 mm
Motor power 50 Hz	1.1 kW / 400 V	1.5 kW / 400 V	1.1 kW / 400 V	1.5 kW / 400 V
Dimensions (L x W x H) mm	1,390 x 760 x 1,420	1,390 x 760 x 1,420	1,680 x 760 x 1,420	1,680 x 760 x 1,420
Net weight	485 kg	490 kg	525 kg	530 kg

¹⁾Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 160 mm
- 4-jaw chuck Ø 200 mm with universally adjustable jaws
- Face plate Ø 250 mm
- Steady rest
- Follow rest
- Revolving centre MT3
- Substructure (not fitted)
- Rear splash guard (not fitted)
- Chip pan
- Chuck protection
- Machine lamp
- Threading gauge
- Quadruple toolholder
- Set of change gear wheels
- Operating tools
- Initial filling with high-grade Mobil oil



■ Enclosed fast acting feedgear mechanism

■ Hardened and ground work spindle with 2 adjustable precision taper roller bearings
 ■ Smooth-running work spindle gearwheels, hardened and precision-ground

■ Removable bed gap

■ Precisely worked slide
 ■ Cross slide turnable 360°
 ■ Handwheels with adjustable precision scaling of 0.04/0.02 mm
 ■ Quadruple tool holder
 ■ All guideways adjustable due to tapered gibs
 ■ Right-handed/left-handed rotation switchable on the slide with stem

■ Tailstock adjustable for taper turning
 ■ Tailstock sleeve and hand-wheel with adjustable precision scaling of 0.025 mm
 ■ Induction-hardened and ground prismatic bed

D 320 x 920

Accessories	Item No.	€ (VAT excl.)
■ ROHM 3-jaw chuck Ø 200 mm	344 1531	409.00
■ ROHM 4-jaw chuck Ø 200 mm	344 1532	459.00
■ ROHM Face plate Ø 260 mm	344 1538	519.00
■ Direct holding fixture Camlock D 1 - 4"		
■ Revolving centre MT 3	344 0703	50.00
■ Position stop with fine adjustment	344 1524	60.00
■ Cutting tool kit 11 pcs., 16 mm	344 1508	65.00
■ Cutting tool kit 7 pcs., 16 mm	344 1511	120.00
■ Universal collet chucking attachment 5C	344 1506	230.00
■ Collet kit 3 - 25 mm, 17 pcs., 5c	344 1509	300.00
■ Quick-action tool holder SWH 3-E	338 4303	429.00
■ Factory assembly quick-action tool holder	900 0400	95.00



Revolving center

Collet kit 17 pcs.

quantum D 330 x 1000

Fully equipped machinist's lathe with fully enclosed feed gear for quick and comfortable switching of the feed pitches

Convincing arguments: quality, efficiency and price

- Induction-hardened and precision-ground heavily ribbed prismatic bed made of grey cast iron
- Spindle holding fixture Camlock ASA D 1 - 4"
- Oil-quenched hardened work spindle bedded in two adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Smooth-running work spindle gearwheels, hardened and precision-ground
- Leadscrew and feed shaft drive easily switchable via oil-quenched feed gear
- Blocking mechanism avoids simultaneous use of leadscrew drive and feed shaft drive
- Cross slide turnable 360°
- Tailstock may be shifted +/- 5 mm for taper turning
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Voltage circuit breaker, emergency stop switch and protective motor switch
- Slide-over chip pan
- Removable bed gap
- Slide out chip pan
- Electrical system by Siemens
- Machine lamp
- Test certificate
- Manufactured according to DIN 8606 (toolmaker's precision)

Model	D 330 x 1000 SG
Item No.	340 1000
€ (VAT excl.)	3,990.00

Technical data	
Centre height	165 mm
Distance between centres ^{*)}	1,000 mm
Turning diameter (max.)	330 mm
Turning-Ø over saddle	198 mm
Turning-Ø without bridge	476 mm
Length of bed bridge	115 mm
Spindle hole	38 mm
Spindle holding fixture	Camlock ASA D 1 - 4"
Spindle taper	MT 5
Spindle speeds, 8 steps	70 - 2,000 rpm
Pitch - Metric	0.4 - 7 mm/rev
Pitch - Inch	4 - 56 TPI
Trapezoidal thread	8 - 120 D.P.
Modular thread	0.2 - 3.5 M.P.
Longitudinal feeds	0.097 - 2.713 mm/rev.
Crossfeeds	0.033 - 0.933 mm/rev.
Bed width	187 mm
Top slide travel ^{*)}	85 mm
Cross slide travel ^{*)}	170 mm
Tailstock taper	MT 3
Motor power 400 V / 50 Hz	1.5 kW
Dimensions (L x W x H)	1,960 x 755 x 1,400 mm
Net weight	600 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 160 mm
- 4-jaw chuck Ø 200 mm with universally adjustable jaws
- Face plate Ø 250 mm
- Steady rest
- Follow rest
- Chuck protection
- Substructure equipped with drawer for tools
- Rear splash guard fitted
- Quadruple toolholder
- Spindle brake
- Threading gauge
- Machine lamp
- Operating tools
- Initial filling with high-grade Mobil oil

- Oil-quenched leading spindle and feed rod gear
- Smoothly running gearwheels of the work spindle hardened and ground
- Enclosed fast acting feedgear mechanism

- High-grade quantum 3-jaw chuck, centrally tensing
- Removable bed gap

- Precision-machined slide
- Upper carriage rotation 360°
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple tool holder
- All guideways adjustable due to tapered gibs

- Tailstock adjustable for taper turning
- Tailstock sleeve and handwheel with adjustable precision scaling of 0.025 mm
- Induction-hardened and ground prismatic bed



Turning

Accessories	Item No.	€ (VAT excl.)
ROHM 3-jaw chuck Ø 200 mm	344 1531	409.00
ROHM 4-jaw chuck Ø 200 mm	344 1532	459.00
ROHM face plate Ø 260 mm	344 1538	519.00
Direct holding fixture Camlock D 1 - 4"		
Revolving centre MT 3	344 0703	50.00
Position stop with fine adjustment	344 1524	60.00
Cutting tool kit 11 pcs, 16 mm	344 1508	65.00
Cutting tool kit 7 pcs, 16 mm	344 1511	120.00
Universal collet chucking attachment 5C	344 1506	230.00
Collet kit 3 - 25 mm, 17 pcs, 5c	344 1509	300.00
Quick-action tool holder SWH 3-E	338 4303	429.00
Factory assembly quick-action tool holder	900 0400	95.00

More accessories from page 36 onwards



quantum D 360 x 1000

Fully equipped precision sliding and screw-cutting lathe with fully enclosed feed gear for quick and comfortable switching of the feed pitches

Convincing arguments: quality, efficiency and price

- Induction-hardened and precision-ground heavily ribbed prismatic bed made of grey cast iron
- Camlock Spindle holding fixture ASA D 1 - 4"
- Oil-quenched hardened work spindle bedded in two adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Smooth-running work spindle gearwheels, hardened and precision-ground
- Leadscrew and feed shaft drive easily switchable via oil-quenched feed gear
- Blocking mechanism avoids simultaneous use of leadscrew drive and feed shaft drive
- Tailstock may be shifted +/- 5 mm for taper turning
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Machine lamp
- 2-step drive motor
- Electrical system by Siemens
- Low-voltage release, emergency stop switch and protective motor switch
- Removable bed gap
- Cover for leading spindle
- Footbrake
- Test certification
- Manufactured according to DIN 8606 (toolmaker's precision)

Model	D 360 x 1000
Item No.	340 1150
€ (VAT excl.)	5,490.00

Technical data	
Centre height	180 mm
Distance between centres ^{*)}	1,000 mm
Turning diameter (max.)	356 mm
Turning-Ø over saddle	220 mm
Turning-Ø without bridge	516 mm
Spindle hole	38 mm
Spindle holding fixture	Camlock D 1 - 4"
Spindle taper	MT 5
Spindle speeds, 16 steps	45 - 1,800 rpm
Pitch - Metric (37)	0.4 - 7 mm/rev
Pitch - Inch (28)	4 - 56 TPI
Longitudinal feeds (42)	0.043 - 0.653 mm/rev.
Crossfeeds (42)	0.015 - 0.220 mm/rev.
Top slide travel ^{*)}	100 mm
Cross slide travel ^{*)}	180 mm
Tailstock taper	MT 3
Tailstock-sleeve travel	120 mm
Main motor power, 2-step	1.5/2.4 kW/400 V/50 Hz
Coolant system	40 W
Dimensions (L x W x H)	1,920 x 740 x 1,194 mm
Net weight	880 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 160 mm
- 4-jaw chuck Ø 200 mm with universally adjustable jaws
- Face plate Ø 320 mm
- Steady rest, rod opening 16 - 100 mm
- Follow rest, rod opening 16 - 95 mm
- Substructure fitted
- Coolant system
- Rear splash guard fitted
- Chuck protection
- Machine lamp
- Position stop with fine adjustment
- Spindle brake
- Operating tools
- Initial filling with high-grade Mobil oil

- Hardened and ground work spindle with 2 adjustable precision taper roller bearings
- Smooth-running work spindle gearwheels, hardened and precision-ground
- Enclosed fast acting feedgear mechanism
- High-precision quantum 3-jaw chuck self centering
- Removable bed gap
- Precision-machined slide
- Upper carriage rotation 360°
- Handwheels with adjustable precision scaling of 0.04/0.02 mm
- Quadruple tool holder
- All guideways adjustable due to tapered gibs
- Machine lamp
- Coolant system
- Tailstock adjustable for taper turning
- Tailstock sleeve and handwheel with adjustable precision scaling of 0.025 mm
- Induction-hardened and ground prismatic bed



Turning

Accessories	Item No.	€ (VAT excl.)
■ ROHM 3-jaw chuck Ø 200 mm	344 1531	409.00
■ ROHM 4-jaw chuck Ø 200 mm	344 1532	459.00
■ ROHM face plate Ø 260 mm	344 1538	519.00
■ Direct holding fixture Camlock D 1 - 4"		
■ Revolving centre MT 3	344 0703	50.00
■ Position stop with fine adjustment	344 1524	60.00
■ Cutting tool kit 11 pcs, 16 mm	344 1508	65.00
■ Cutting tool kit 7 pcs, 16 mm	344 1511	120.00
■ Universal collet chucking attachment 5C	344 1506	230.00
■ Collet kit 3 - 25 mm, 17 pcs, 5c	344 1509	300.00
■ Quick-action tool holder SWH 3-E	338 4303	429.00
■ Factory assembly quick-action tool holder	900 0400	95.00

More accessories from page 36 onwards



quantum D 420 x 1000 / quantum D 420 x 1500

Precise screw-cutting and bar lathes.

Perfect technique, complete equipment, easy-to-use

Convincing arguments: quality, efficiency and price

- Induction-hardened and precision-ground heavily ribbed prismatic bed
- Substructure and lathe bed made of a single block of Meehanite cast iron
- Camlock spindle holding fixture ASA D 1 - 6"
- Oil-quenched hardened work spindle bedded in two adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Smooth-running work spindle gearwheels, hardened and precision-ground
- Leadscrew and feed shaft drive easily switchable via oil-quenched feed gear
- Adjustable safety coupling of the feed shaft
- The tailstock may be shifted +/- 13 mm for taper turning
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Machine lamp
- EMERGENCY-STOP button, protective motor switch, lockable main switch
- Removable bed gap
- Adjustable dial of the threading gauge
- 2-step drive motor
- Cover for leading spindle
- Mechanical foot spindle brake
- Test certification
- Manufactured according to DIN 8606 (toolmaker's precision)

Model	D 420 x 1000	D 420 x 1500
Item No.	340 1160	340 1165
€ (VAT excl.)	7,990.00	8,990.00

Technical data	D 420 x 1000	D 420 x 1500
Centre height	210 mm	210 mm
Distance between centres ^{*)}	1,000 mm	1,500 mm
Turning diameter (max.)	420 mm	420 mm
Turning-Ø over saddle	255 mm	255 mm
Turning-Ø without bridge	590 mm	590 mm
Length of bed bridge	240 mm	240 mm
Spindle hole	52 mm	52 mm
Spindle holding fixture	Camlock D 1 - 6"	Camlock D 1 - 6"
Spindle taper	MT 6	MT 6
Spindle speeds, 16 steps	45 - 1,800 rpm	45 - 1,800 rpm
Pitch - Metric (39)	0.2 - 14 mm/rev	0.2 - 14 mm/rev
Pitch - Inch (45)	72 - 2 TPI	72 - 2 TPI
Modular thread (18)	0.3 - 3.5 MP	0.3 - 3.5 MP
Trapezoidal thread (21)	8 - 44 DP	8 - 44 DP
Longitudinal feeds	0.05 - 1.7 mm/rev.	0.05 - 1.7 mm/rev.
Crossfeeds	0.025 - 0.85 mm/rev.	0.025 - 0.85 mm/rev.
Top slide travel ^{*)}	135 mm	135 mm
Cross slide travel ^{*)}	230 mm	230 mm
Tailstock taper	MT 4	MT 4
Tailstock-sleeve travel	120 mm	120 mm
Main motor power 50 Hz.	4.5 kW/ 400 V	4.5 kW/ 400 V
Coolant system	100 W	100 W
Dimensions (L x W x H)	1,940 x 850 x 1,320 mm	2,510 x 1,020 x 1,580 mm
Net weight	1,570 kg	1,950 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 200 mm
- 4-jaw chuck Ø 250 mm with universally adjustable jaws
- Face plate Ø 350 mm
- Steady rest
- Follow rest
- Substructure
- Coolant system
- Rear splash guard fitted
- Chuck protection
- Turret limit stop with fine adjustment acting as end stop on the lathe saddle
- Spindle brake
- Machine lamp
- Threading gauge
- Operating tools
- Initial filling with high-grade Mobil oil

■ All metric thread pitches in a range from 0.2 to 14 mm/rev and all inch-based threads in a range from 72 to 2 threads/inch may be adjusted without changing the change gears via control levers on the control panel

■ Removable bed gap

■ Quadruple tool holder
 ■ All guideways adjustable due to tapered gibs
 ■ Turret head with fine adjustment acting as end limit stop on the lathe saddle

■ Tailstock for taper turning adjustable +/- 13 mm
 ■ Tailstock sleeve and handwheel with adjustable precision scaling



■ Enclosed fast acting feedgear mechanism
 ■ All toothed wheels and shafts hardened and ground, oil-quenched

■ Precision-machined slide
 ■ Upper carriage rotation 360°
 ■ Handwheels with adjustable precision scaling of 0.04/0.02 mm

■ Halogen machine lamp
 ■ Aluminum housing
 ■ Coolant system

■ Induction-hardened and ground prismatic bed

Accessories	Item No.	€ (VAT excl.)
■ RÖHM 3-jaw chuck Ø 200 mm	344 1535	439.00
■ RÖHM 4-jaw chuck Ø 200 mm	344 1536	499.00
■ RÖHM 3-jaw chuck Ø 250 mm	344 4020	939.00
■ RÖHM 4-jaw chuck Ø 250 mm	344 4021	1,029.00
■ RÖHM face plate Ø 400 mm	344 4038	1,029.00
■ Revolving centre MT 4	344 0704	60.00
■ Collet kit 3 - 25 mm 17 pcs., 5C	344 1509	300.00
■ Quick-action tool holder SWH 5 - B	338 4305	490.00
■ Factory assembly quick-action tool holder	900 0400	95.00

More accessories from page 36 onwards



Collet kit 17 pcs.



4-jaw chuck

quantum D 460 x 1000 / quantum D 460 x 1500 / quantum D 460 x 2000

Fully equipped heavy sliding and screw-cutting lathes, smooth-running and low-vibration. Substructure and lathe bed made of a single block

Convincing arguments: quality, efficiency and price

- Camlock spindle holding fixture ASA D 1 - 6"
- Hardened and ground oil-quenched work spindle with 3 adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Closed fast-acting and oil-quenched feedgear mechanism with precision bearings. All gearwheels and shafts are hardened and ground
- Substructure and lathe bed made of a single block of Meehanite cast iron
- Hardened and ground bed slideways
- Central lubrication system in the tool slide
- Stop rod with four stop pins for longitudinal movement of the saddle
- Tailstock adjustable for taper turning
- EMERGENCY-STOP button, protective motor switch, lockable main switch
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Machine lamp
- Cover for leading spindle
- Removable bed gap
- Mechanical foot spindle brake
- Manufactured according to DIN 8606 (toolmaker's precision)
- Clear selector lever to switch the feed speeds
- Enclosed fast acting feedgear mechanism
- All toothed wheels and shafts are hardened and ground, oil-quenched

Model	D 460 x 1000	D 460 x 1500	D 460 x 2000
Item No.	340 2100	340 2150	340 2200
€ (VAT excl.)	9.590.00	9.990.00	11.990.00

Technical data			
Centre height	230 mm	230 mm	230 mm
Distance between centres ^{*)}	1,000 mm	1,500 mm	2,000 mm
Turning diameter (max.)	460 mm	460 mm	460 mm
Turning-Ø over saddle	240 mm	240 mm	240 mm
Turning-Ø without bridge	650 mm	650 mm	650 mm
Length of bed bridge	155 mm	155 mm	155 mm
Spindle hole	58 mm	58 mm	58 mm
Spindle holding fixture	Camlock D 1 - 6"	Camlock D 1 - 6"	Camlock D 1 - 6"
Spindle taper	MT 6	MT 6	MT 6
Spindle speeds, 12 steps	32 - 2,000 rpm	32 - 2,000 rpm	32 - 2,000 rpm
Pitch - Metric (53)	0.4 - 14 mm/rev	0.4 - 14 mm/rev	0.4 - 14 mm/rev
Pitch - Inch (40)	2 - 56 TPI	2 - 56 TPI	2 - 56 TPI
Longitudinal feeds (40)	0.032 - 0.898 mm/rev	0.032 - 0.898 mm/rev	0.032 - 0.898 mm/rev
Crossfeeds (40)	0.016 - 0.449 mm/rev	0.016 - 0.449 mm/rev	0.016 - 0.449 mm/rev
Top slide travel ^{*)}	120 mm	120 mm	120 mm
Cross slide travel ^{*)}	230 mm	230 mm	230 mm
Tailstock taper	MT 4	MT 4	MT 4
Tailstock -sleeve travel	120 mm	120 mm	120 mm
Motor power 400 V / 50 Hz	5.5 kW	5.5 kW	5.5 kW
Dimensions (L x W x H)	2,180x910x1,640 mm	2,680x980x1,640 mm	3,180x980x1,640 mm
Net weight	1,700 kg	1,950 kg	2,400 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

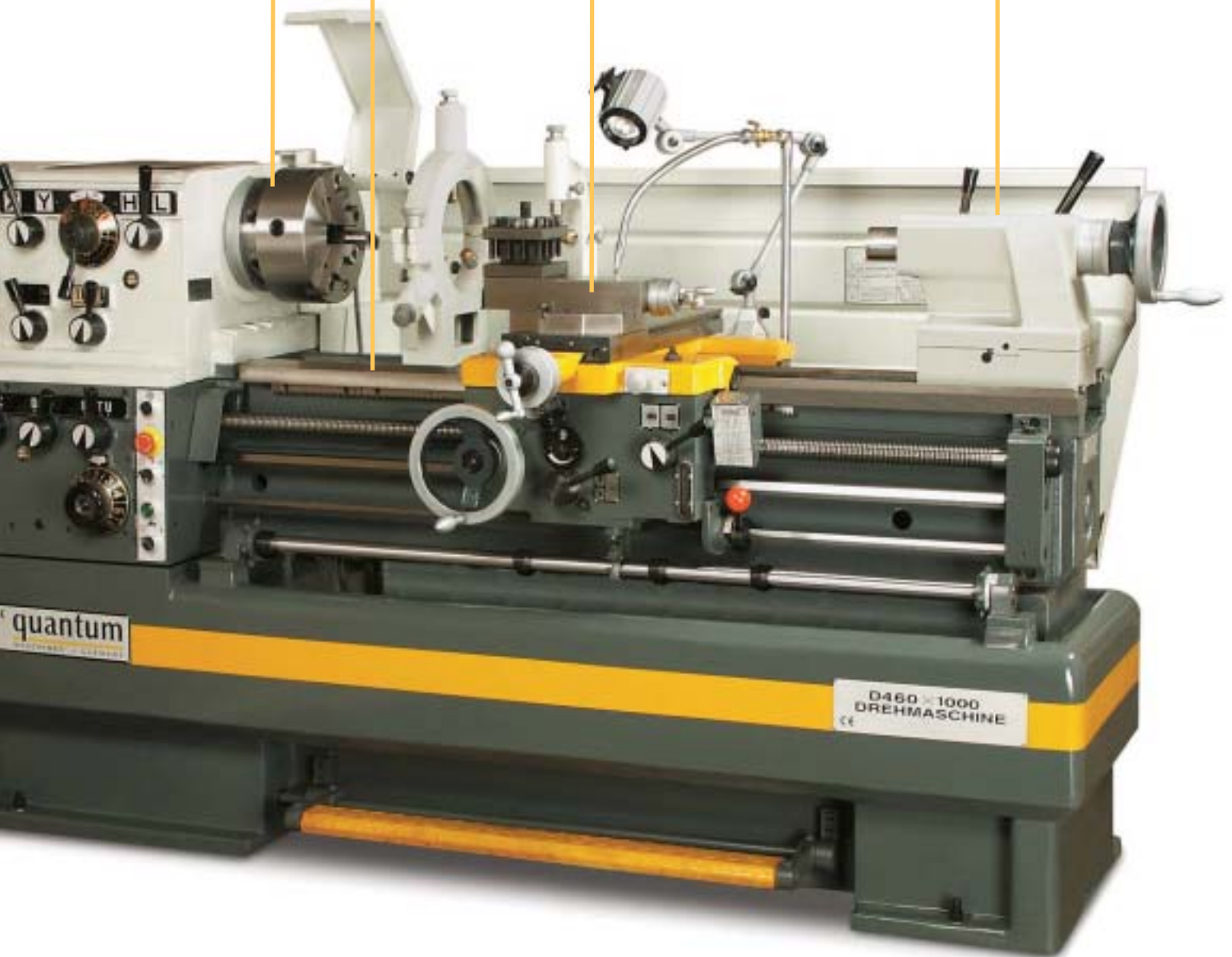


High-precision quantum 3-jaw chuck, self centering

Removable bed gap

Precision-machined slide
 Upper carriage rotation 360°
 Central lubrication of the slideways
 Oil-quenched shafts and wheels
 All guideways adjustable due to tapered gibs
 Machine lamp
 Coolant system

Tailstock adjustable for taper turning
 Tailstock sleeve and hand-wheel with adjustable precision scaling of 0.025 mm
 Induction-hardened and ground prismatic bed



Accessories	Item No.	€ (VAT excl.)
ROHM 3-jaw chuck Ø 200 mm	344 1535	439.00
ROHM 4-jaw chuck Ø 200 mm	344 1536	499.00
ROHM 3-jaw chuck Ø 250 mm	344 4020	939.00
ROHM 4-jaw chuck Ø 250 mm	344 4021	1,029.00
ROHM face plate Ø 400 mm	344 4038	1,029.00
Revolving centre MT 4	344 0704	60.00
Position stop, 4-stage adjustable	344 4022	195.00
Universal collet chucking attachment 5C	344 4006	259.00
Collet kit 3 - 25 mm, 17-pcs 5C	344 1509	300.00
Quick-action tool holder SWH 5 - B	338 4305	490.00
Factory assembly quick-action tool holder	900 0400	95.00

More accessories from page 36 onwards



Position stop, 4-stage



Revolving centre

Lathes

quantum D 560 x 1500 / quantum D 560 x 2000 / quantum D 560 x 3000

Heavy sliding and screw-cutting lathes which are distinguished by high flexibility, precision and economy.

Convincing arguments: quality, efficiency and price

- Camlock spindle holding fixture ASA D 1 - 8"
- Hardened and ground oil-quenched work spindle with 3 adjustable precision taper roller bearings
- Guaranteed concentricity precision of the spindle nose less than 0.015 mm
- Closed fast-acting and oil-quenched feedgear mechanism with precision bearings.
All gearwheels and shafts are hardened and ground
- Substructure and lathe bed made from a single block of Meehanite cast iron
- Removable bed gap
- Hardened and ground bed slideways
- Central lubrication system in the tool slide
- Bumper bar with four trip dogs for longitudinal movement of the slide
- Lateral adjustable tailstock for exact adjusting and taper turning
- Right-left-hand rotation can be switched with the help of the indexing spindle
- Machine lamp
- Cover for leading spindle
- Low-voltage release, EMERGENCY-STOP button and protective motor switch
- Mechanical foot spindle brake
- Manufactured according to DIN 8606 (toolmaker's precision)
- Clear selector lever to switch the feed speeds
- Enclosed fast acting feedgear mechanism
- All toothed wheels and shafts are hardened and ground, oil-quenched

New



Model	D 560 x 1500	D 560 x 2000	D 560 x 3000
Item No.	340 2615	340 2620	340 2630
€ (VAT excl.)	13.900.00	15.500.00	17.900.00

Technical data	D 560 x 1500	D 560 x 2000	D 560 x 3000
Centre height	280 mm	280 mm	280 mm
Distance between centres ^{*)}	1,500 mm	2,000 mm	3,000 mm
Turning diameter (max.)	560 mm	560 mm	560 mm
Turning-Ø over saddle	358 mm	358 mm	358 mm
Turning-Ø without bridge	788 mm	788 mm	788 mm
Length of bed bridge	173 mm	173 mm	173 mm
Spindle hole	82 mm	82 mm	82 mm
Spindle holding fixture	Camlock ASA D 1 - 8"	Camlock ASA D 1 - 8"	Camlock ASA D 1 - 8"
Spindle taper	MT 7	MT 7	MT 7
Spindle speeds, 12 steps	25 - 1,600 rpm	25 - 1,600 rpm	25 - 1,600 rpm
Pitch - Metric (47)	0.2 - 14 mm/rev	0.2 - 14 mm/rev	0.2 - 14 mm/rev
Pitch - Inch (60)	2 - 112 TPI	2 - 112 TPI	2 - 112 TPI
Longitudinal feeds (35)	0.059 - 1.646 mm/rev	0.059 - 1.646 mm/rev	0.059 - 1.646 mm/rev
Crossfeeds (35)	0.020 - 0.573 mm/rev	0.020 - 0.573 mm/rev	0.020 - 0.573 mm/rev
Top slide travel ^{*)}	130 mm	130 mm	130 mm
Cross slide travel ^{*)}	321 mm	321 mm	321 mm
Tailstock taper	MT 5	MT 5	MT 5
Tailstock -sleeve travel	180 mm	180 mm	180 mm
Motor power 400 V / 50 Hz	7.5 kW	7.5 kW	7.5 kW
Dimensions mm (L x B x H)	2,840 x 1,120 x 1,460	3,340 x 1,120 x 1,460	4,010 x 1,200 x 1,610
Net weight	2,370 kg	2,720 kg	4,390 kg

*Guideways travel are briefer during use of measuring gibs for digital displays

Extent of supply:

- 3-jaw chuck Ø 315 mm
- 4-jaw chuck Ø 400 mm mit with universally adjustable jaws
- Face plate Ø 450 mm
- Steady rest, rod opening 19 - 165 mm
- Follow rest, rod opening 16 - 95 mm
- Coolant system
- Rear splash guard
- Spindle brake
- Machine lamp
- Threading gauge
- Operating tools
- Initial filling with high-grade Mobil oil

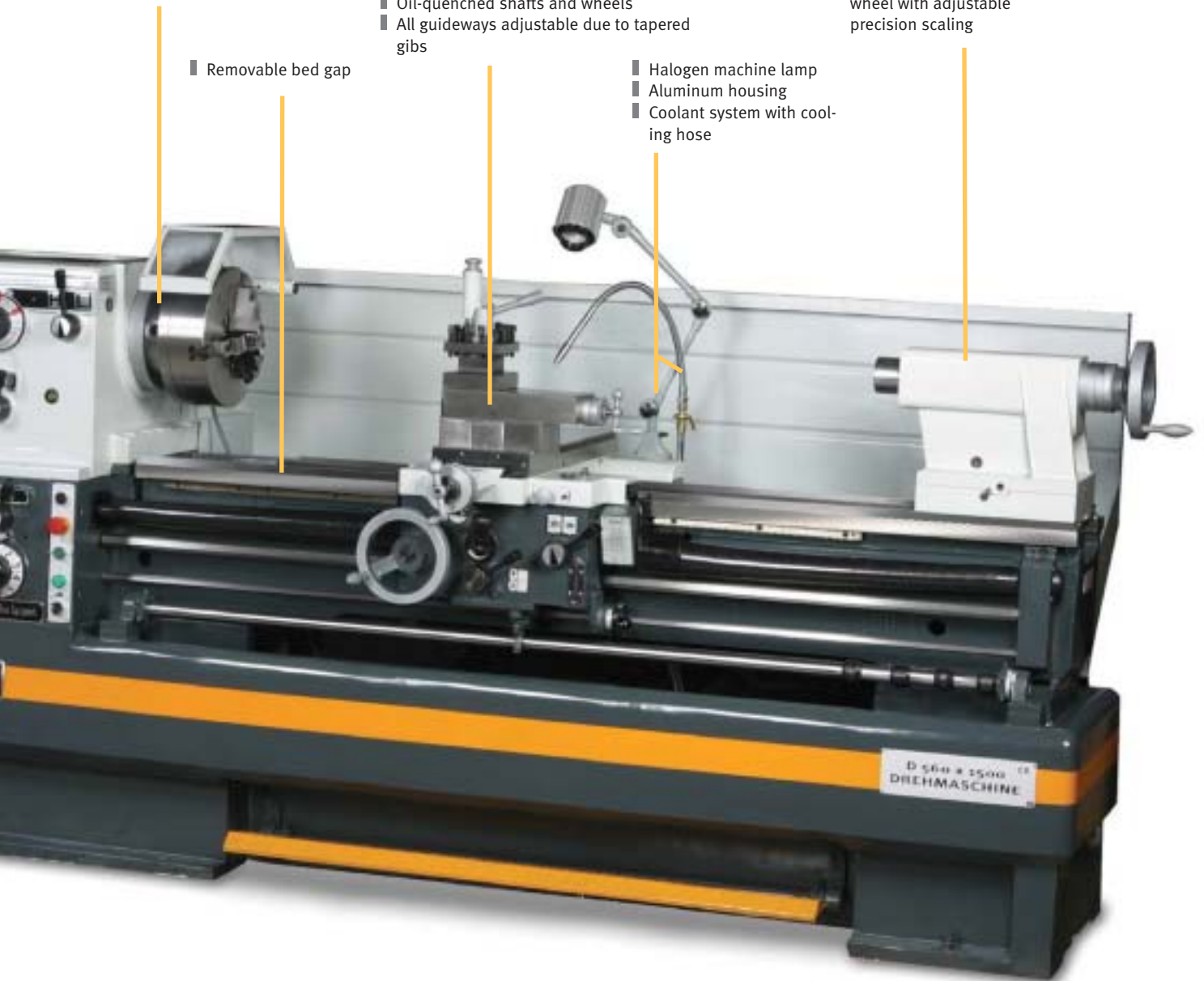
- High-precision quantum 3-jaw chuck, self centering

- Removable bed gap

- Precision-machined slide
- Upper carriage rotation 360°
- Central lubrication of the slideways
- Oil-quenched shafts and wheels
- All guideways adjustable due to tapered gibs

- Halogen machine lamp
- Aluminum housing
- Coolant system with cooling hose

- Tailstock for taper turning, adjustable
- Tailstock sleeve and hand-wheel with adjustable precision scaling



Turning

Accessories	Item No.	€ (VAT excl.)
3-jaw chuck Ø 315 mm. D 1-8" central and individual clamping jaws	344 4055	399.00
Soft block jaws for 3-jaw chuck Ø 315 mm	344 4056	129.00
4-jaw chuck Ø 400 mm D 1-8"	344 4051	349.00
4-jaw chuck Ø 325 mm Combi	344 4052	695.00
Lathe chuck flange Ø 315 mm D 1-8 "	344 4042	139.00
Revolving centre MT 5	344 0705	79.00
Cutting tool kit 20 mm with reversible HM carbide tips, 7 pcs.	344 4011	185.00
Quick-action tool holder SWH 7 - C	338 4307	790.00
Factory assembly quick-action tool holder	900 0400	95.00

More accessories from page 36 onwards



Quick-action tool holder SWH 7-C

Cutting tool kit

Accessories turning

Universal coolant system	Item No.	€ (VAT excl.)
<ul style="list-style-type: none"> ■ Lift max. 2.5 m ■ Flow rate 3.5 ltrs./min. ■ Complete with tank, flexible tube, hose ■ With German switch/plug combination ■ Tank capacity 11 ltrs. ■ Magnetic base attachment of the coolant hose ■ For self-assembly 		
Universal coolant system 230 V	335 2002	179.00
Universal coolant system 400 V	335 2001	189.00



Levelling and vibration-damping elements		
■ No need for anchoring, vibration isolating, height-adjustable		
Levelling and vibration-damping elements SE 1	338 1012	23.00
Levelling and vibration-damping elements SE 2	338 1016	32.00

Load per element (kg)	SE 1	SE 2
Lathes max.	330	800
Milling machines max.	500	1,300
Surface grinding machines max.	330	800
General machines max.	1,200	3,000
Stat. limit load	2,000	4,000
Ø - H - L	120 - 32 - 100	160 - 35 - 120
	M 12	M 16



Lathe chuck flange		
For assembling chuck		
■ Ø 160 mm Camlock D 1-4"	344 1512	85.00
■ Ø 200 mm Camlock D 1-4"	344 1513	99.00
■ Ø 200 mm Camlock D 1-6"	344 4012	99.00
■ Ø 250 mm Camlock D 1-6"	344 4013	119.00
■ Ø 315 mm Camlock D 1-8"	344 4042	139.00



Face fixing plate	Item No.	€ (VAT excl.)
■ For lathe D 210; Ø 200 mm	344 0352	50.00
■ For lathe D 250; Ø 250 mm	344 0552	50.00



Draw-in collet chuck ER 25 / ER 32		
■ With short taper holding fixture		
For lathe D 210 ER 25	344 0305	70.00
For lathe D 210 ER 32	344 0306	79.00
For lathe D 250 ER 25	344 0505	80.00
For lathe D 250 ER 32	344 0506	90.00



Collet kit 3-25 mm 17 pcs, 5C		
	344 1509	300.00
■ Size 3/4/5/6/8/10/12/14/15/16/18/20/21/22/23/24/25 mm		
■ For universal collet chucking attachment (344 1505 and 344 4005)		
■ In wooden case		



Collet kit ER 25		
	344 1109	240.00
■ 15 pcs., 1 - 16 mm ■ In wooden case		

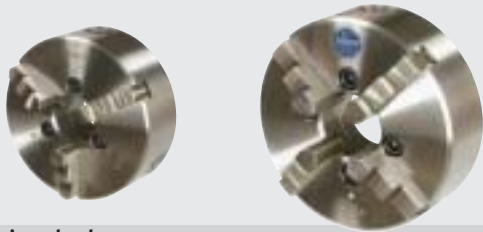


Collet kit ER 32		
	344 1122	260.00
■ 18 pcs., 3 - 20 mm ■ In wooden case		



RÖHM 3-jaw chuck	Item No.	€ (VAT excl.)
∅ 100 mm ¹⁾	344 1010	269.00
∅ 125 mm ¹⁾	344 1025	279.00
∅ 160 mm Camlock D1-4"	344 1528	369.00
∅ 200 mm Camlock D1-4"	344 1531	409.00
∅ 200 mm Camlock D1-6"	344 1535	439.00
∅ 250 mm Camlock D1-6"	344 4020	939.00

RÖHM 4-jaw chuck	Item No.	€ (VAT excl.)
∅ 100 mm ¹⁾	344 1012	299.00
∅ 125 mm ¹⁾	344 1027	319.00
∅ 160 mm Camlock D1-4"	344 1529	409.00
∅ 200 mm Camlock D1-4"	344 1532	459.00
∅ 200 mm Camlock D1-6"	344 1536	499.00
∅ 250 mm Camlock D1-6"	344 4021	1.029.00



quantum 3-jaw chuck	Item No.	€ (VAT excl.)
Concentricity precision less than 0.05 mm		
∅ 80 mm ¹⁾	344 0287	55.00
∅ 100 mm ¹⁾	344 0710	75.00
∅ 125 mm ¹⁾	344 0712	90.00
∅ 160 mm Camlock D1-4"	344 0716	120.00
∅ 200 mm Camlock D1-4"	344 0720	170.00
∅ 200 mm Camlock D1-6"	344 0722	179.00
∅ 250 mm Camlock D1-6"	344 0725	250.00
∅ 315 mm Camlock D1-8"	344 4055	399.00

Soft block jaws ⁴⁾	Item No.	€ (VAT excl.)
For quantum 3-jaw chuck		
∅ 100 mm	344 0810	55.00
∅ 125 mm	344 0812	55.00
∅ 160 mm Camlock D1-4"	344 0816	70.00
∅ 200 mm Camlock D1-4" / Camlock D1-6"	344 0820	80.00
∅ 250 mm Camlock D1-6"	344 0825	85.00
∅ 315 mm	344 4056	129.00



quantum 4-jaw chuck	Item No.	€ (VAT excl.)
Concentricity precision less than 0.05 mm		
∅ 72 mm ¹⁾ , D 140 direct holding fixture	344 0288	65.00
∅ 100 mm ¹⁾	344 0711	95.00
∅ 100 mm ¹⁻³⁾	344 0709	70.00
∅ 125 mm ¹⁻³⁾	344 0714	80.00
∅ 125 mm ¹⁾	344 0713	135.00
∅ 160 mm combi ¹⁻²⁾	344 0717	270.00
∅ 200 mm combi ¹⁻²⁾	344 0721	359.00
∅ 250 mm combi ¹⁻²⁾	344 0726	399.00
∅ 325 mm combi ¹⁻²⁾	344 4052	695.00
∅ 400 mm Camlock D1-8"	344 4051	349.00



¹⁾ Without assembly, lathe chuck flange required
²⁾ Centrally and individually tensible jaws
³⁾ Individually tensible jaws
⁴⁾ Not suitable for combi chucks

RÖHM revolving centre	Item No.	€ (VAT excl.)
MT 2	344 1003	75.00
MT 3	344 1503	79.00
MT 4	344 4003	99.00

quantum revolving centre	Item No.	€ (VAT excl.)
MT 1	344 0701	35.00
MT 2	344 0702	45.00
MT 3	344 0703	50.00
MT 4	344 0704	60.00
MT 5	344 0705	79.00
MT 6	344 0706	179.00



Revolving centre with interchangeable centre	Item No.	€ (VAT excl.)
With 7 interchangeable centres		
Body made of hardened and ground tool steel		
Precision needle bearings ensure high concentricity precision		
MT 2 kit in wooden case MT 3/MT 4 as kit in plastic case		
MT 2	344 0732	120.00
MT 3	344 0733	140.00
MT 4	344 0734	150.00








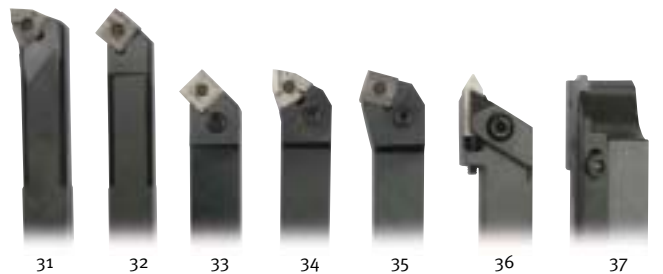
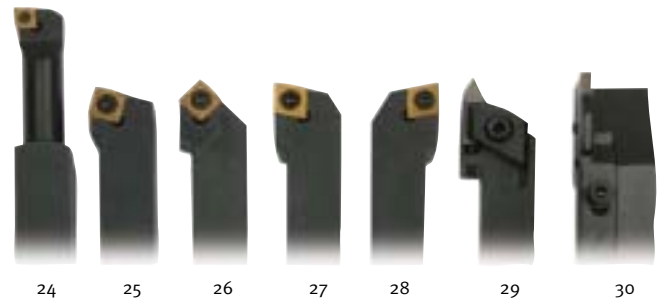
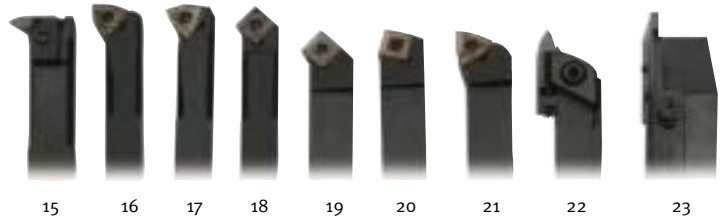
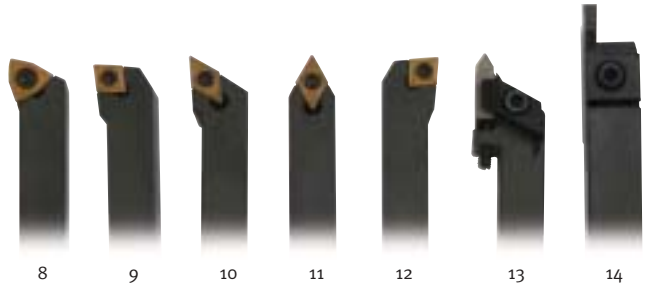
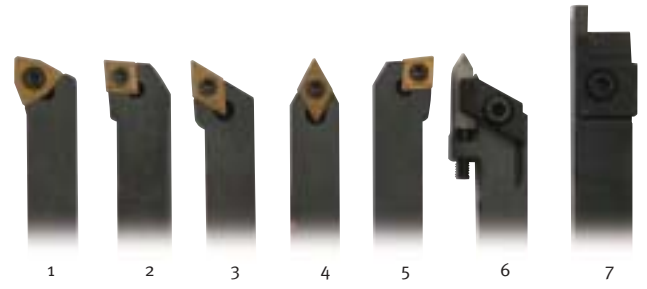
Halogen working light AL 20	Item No.	€ (VAT excl.)
	335 1140	69.00
Magnetic base and mounting plate		
230 V connection		
Integrated transformer		
12 V light		

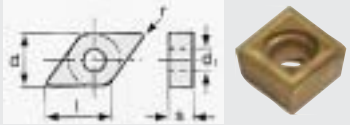
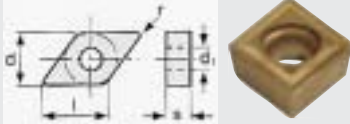
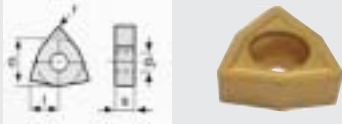


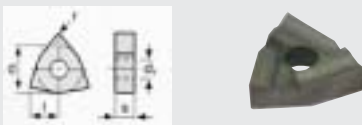


Halogen working light AL 30	Item No.	€ (VAT excl.)
	335 1150	89.00
Mounting plate		
230 V connection		
Integrated transformer		
12 V light		
Stable aluminum light housing to protect against water, oil, dust and impacts		



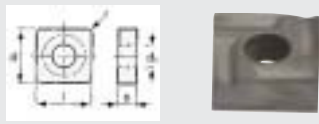


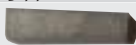



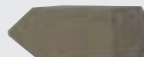
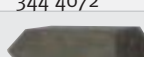


Accessories turning

Name	Item No.	€ (VAT excl.)
Cutting tool kit HM 8 mm	344 1011	89.00
<ul style="list-style-type: none"> 7 pcs With reversible HM carbide tips TiN-coated In wooden box 		
ISO name tool holder		
Cutting tool 1: SWGCR/Lo810Do5		
Cutting tool 2: SCLCR/Lo810Do6		
Cutting tool 3: SDJCR/Lo810Do7		
Cutting tool 4: SDNCN/Lo810Do7		
Cutting tool 5: SCLCLo810Do6		
Cutting tool 6: LWo810R/L 04		
Cutting tool 7: QAO812R/Lo3		
Cutting tool kit HM 10 mm	344 1111	110.00
<ul style="list-style-type: none"> 7 pcs With reversible HM carbide tips TiN-coated In wooden box 		
ISO name tool holder		
Cutting tool 8: SWGCR/L1010Eo5		
Cutting tool 9: SCLCR1010Eo6		
Cutting tool 10: SDJCR/L1010Eo7		
Cutting tool 11: SDNCN/L1010Eo7		
Cutting tool 12: SCLCR/L1010Eo6		
Cutting tool 13: LW1010R/Lo4		
Cutting tool 14: QA1012R/Lo3		
Cutting tool kit HM 12 mm	344 1211	120.00
<ul style="list-style-type: none"> 9 pcs With reversible HM carbide tips In wooden box 		
ISO name tool holder		
Cutting tool 15: LN1215R/Lo4		
Cutting tool 16: PWKNR/L1012Jo6		
Cutting tool 17: PWUNR/L1012Jo6		
Cutting tool 18: PSSNR/L1012Jo9		
Cutting tool 19: PSSNR/L1215Ho9		
Cutting tool 20: PSBNR/L1215Ho9		
Cutting tool 21: PWGNR/L1215Ho6		
Cutting tool 22: LW1215R/Lo6		
Cutting tool 23: QA1222R/Lo3		
Cutting tool kit HM 16 mm	344 1511	120.00
<ul style="list-style-type: none"> 7 pcs With reversible HM carbide tips TiN-coated In wooden box 		
ISO name tool holder		
Cutting tool 24: SCLCR1616Ko6		
Cutting tool 25: SSRRCR1616Ho9		
Cutting tool 26: SSRRCR1616Ho9		
Cutting tool 27: SCGCR1616Ho9		
Cutting tool 28: SCGL1616Ho9		
Cutting tool 29: LW1616Ro4		
Cutting tool 30: QA1622R/Lo3		
Cutting tool kit HM 20 mm	344 4011	185.00
<ul style="list-style-type: none"> 7 pcs With reversible HM carbide tips In wooden box 		
ISO name tool holder		
Cutting tool 31: PWUNR/L1518Mo8	h ₁ = 16 mm	
Cutting tool 32: PSSNR/L1518M12	h ₁ = 16 mm	
Cutting tool 33: PSSNR/L2020-12	h ₁ = 20 mm	
Cutting tool 34: PWGNR2020 08	h ₁ = 20 mm	
Cutting tool 35: PSRNR/L2020-12	h ₁ = 20 mm	
Cutting tool 36: LW2020R 08	h ₁ = 20 mm	
Cutting tool 37: QA2027R/L 04	h ₁ = 20 mm	
Cutting tool kit 8 mm	344 1008	59.90
<ul style="list-style-type: none"> 11 pcs With soldered HM - tips In wooden box 		
Cutting tool kit 10 mm	344 1108	59.90
<ul style="list-style-type: none"> 11 pcs With soldered HM - tips In wooden box 		
Cutting tool kit 16 mm	344 1508	65.00
<ul style="list-style-type: none"> 11 pcs With soldered HM - tips In wooden box 		



Spare reversible HM carbide tips	Item No.	€ (VAT excl.)
Turning insert C/80° TiN-coated <i>(Suitable for cutting tool 2/9/5/12/24)</i> ISO name: CCMT060204	344 1164	30.00
l = 6.35 d = 6.35 s = 2.60 d ₁ = 2.70 r = 0.40		
Turning insert C/80° TiN-coated <i>(Suitable for cutting tool 27/28)</i> ISO name: CCMT09T304	344 1572	35.00
l = 9.50 d = 9.50 s = 4.00 d ₁ = 4.40 r = 0.40		
Turning insert W/80° TiN-coated <i>(Suitable for cutting tool 1/8)</i> ISO name: WCMX050308F	344 1165	30.00
l = 5.20 d = 6.50 s = 3.35 d ₁ = 3.15 r = 0.80		
Turning insert V/35° TiN-coated <i>(Suitable for cutting tool 3/4/10/11)</i> ISO name: VCMT070204	344 1166	30.00
l = 7.30 d = 6.35 s = 2.53 d ₁ = 2.70 r = 0.40		
Turning insert S/90° TiN-coated <i>(Suitable for cutting tool 25/26)</i> ISO name: SCMT09T304	344 1571	35.00
l = 9.52 d = 9.52 s = 4.10 d ₁ = 4.35 r = 0.40		
Turning insert W/80° <i>(Suitable for cutting tool 31)</i> ISO name: WNUM060400FL	344 4073	14.90
l = 8.60 d = 13.35 s = 4.50 d ₁ = 5.16 r = 0.10		
Turning insert S/90° <i>(Suitable for cutting tool 32)</i> ISO name: SAUM120400FL	344 4074	14.90
l = 13.10 d = 13.10 s = 4.50 d ₁ = 5.16 r = 0.10		
Turning insert S/90° <i>(Suitable for cutting tool 32/33/35)</i> ISO name: SAUM120404F	344 4075	14.90
l = 13.10 d = 13.10 s = 4.50 d ₁ = 5.16 r = 0.10		

	Item No.	€ (VAT excl.)
Turning insert W/80° <i>(Suitable for cutting tool 34)</i> ISO name: WNUM060400FR	344 4076	14.90
l = 8.60 d = 13.35 s = 4.50 d ₁ = 5.16 r = 0.10		
Turning insert S/90° <i>(Suitable for cutting tool 19/20)</i> ISO name: SAUM09T300F	344 1267	7.00
l = 10.00 d = 10.00 s = 3.55 d ₁ = 4.10 r = 0.10		
Turning insert S/90° <i>(Suitable for cutting tool 18)</i> ISO name: SAUM09T300FL	344 1269	7.00
l = 5.40 d = 10.00 s = 3.55 d ₁ = 4.10 r = 0.10		
Turning insert W/80° <i>(Suitable for cutting tool 21)</i> ISO name: WAUM06T300FR	344 1268	7.00
l = 6.20 d = 10.35 s = 3.55 d ₁ = 4.10 r = 0.10		
Turning insert W/80° <i>(Suitable for cutting tool 16/17)</i> ISO name: WAUM06T300FL	344 1270	7.00
l = 6.20 d = 10.35 s = 3.55 d ₁ = 4.10 r = 0.10		
Parting insert <i>(Suitable for cutting tool 7/14)</i>	344 1161	5.00
		
Parting insert <i>(Suitable for cutting tool 23/30)</i>	344 1261	5.00
		
Parting insert <i>(Suitable for cutting tool 37)</i>	344 4071	14.90
		
Threading insert 60° <i>(Suitable for cutting tool 6/13/15)</i>	344 1162	6.00
		
Threading insert 60° <i>(Suitable for cutting tool 22/29)</i>	344 1263	6.00
		
Threading insert 60° <i>(Suitable for cutting tool 36)</i>	344 4072	14.90
		

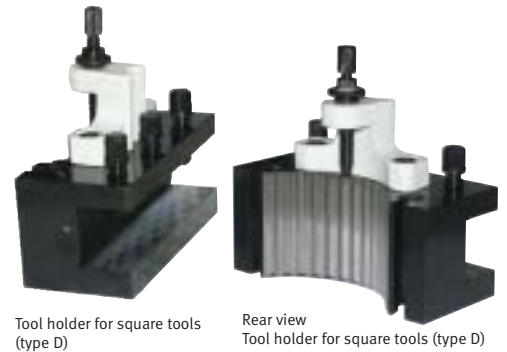
Packaging unit and price unit for all replacement inserts and parting inserts = 5 pcs

Accessories for lathes

Quick-action tool holder	Item No.	€ (VAT excl.)
<ul style="list-style-type: none"> ▮ Compatible with all popular lathes ▮ Repeating accuracy 0.01 mm ▮ 40 different angular positions ▮ Height adjustment via knurled screw ▮ Toolholder head and toolholder with profile ground toothing ▮ Clamping of the change holder free from play and repeatable ▮ Angular scale on the head 		
Quick-action tool holder kit SWH AA	338 4311	250.00
For lathe D 140 x 250 Vario		
Includes :		
<ul style="list-style-type: none"> ▮ 1 Tool holder head A ▮ 3 Tool holder 13 x 50 for square tools (type D) ▮ 1 Tool holder 13 x 50 for round tools (type H) ▮ For self-assembly 		
Spare tool holder 13 x 50 type D	338 4312	49.00
Quick-action tool holder kit SWH 1 - A	338 4301	350.00
Includes :		
<ul style="list-style-type: none"> ▮ 1 Tool holder head A ▮ 3 Tool holder 20 x 90 for square tools (type D) ▮ 1 Tool holder 20 x 90 for round tools (type H) ▮ For self-assembly 		
Spare tool holder 20 x 90 type D	338 4302	55.00
Quick-action tool holder kit SWH 3 - E	338 4303	429.00
Includes:		
<ul style="list-style-type: none"> ▮ 1 Tool holder head E ▮ 3 Tool holder 20 x 100 for square tools (type D) ▮ 1 Tool holder 30 x 100 for round tools (type H) ▮ For self-assembly 		
Spare tool holder 20 x 100 type D	338 4304	79.00
Quick-action tool holder kit SWH 5 - B	338 4305	490.00
Includes:		
<ul style="list-style-type: none"> ▮ 1 Tool holder head B ▮ 3 Tool holder 25 x 120 for square tools (type D) ▮ 1 Tool holder 18 x 120 for round tools (type H) ▮ For self-assembly 		
Spare tool holder 25 x 120 type D	338 4306	82.00
Quick-action tool holder Kit SWH 7 - C	338 4307	790.00
Includes:		
<ul style="list-style-type: none"> ▮ Tool holder head C ▮ 3 Tool holder 32 x 150 for square tools (type D) ▮ 1 Tool holder 35 x 150 for round tools (type H) ▮ For self-assembly 		
Spare tool holder 32 x 150 type D	338 4308	129.00
Factory assembly and adaptation of quick-action tool holder 900 0400		95.00
<ul style="list-style-type: none"> ▮ Only possible when ordering a new machine 		



Tool holder head



Tool holder for square tools (type D)

Rear view
Tool holder for square tools (type D)



Tool holder for round tools (type H)

Tool holder head			AA	A	E	B	C
Turning diameter			120 - 220 mm	150 - 300 mm	200 - 400 mm	300 - 500 mm	400 - 700 mm
Motor lathe max.			1 kW	2.2 kW	4.4 kW	6.6 kW	13 kW
Slide width max.	z	mm	80	100	120	150	180
Cutting edge height min.	x	mm	h + y	h + y	h + y	h + y	h + y
Cutting edge height max.		mm	x + hv	x + hv	x + hv	x + hv	x + hv
Height adjustability	hv	mm	8	11	17 / 15	20 / 11	40 / 35 / 30
Cutting tool rest	y	mm	6	9	10 / 11	12.5 / 14	15 / 18
Cutting tool rest width	d	mm	10	12	20	20	20 / 30
Tool max.	h	mm	12	20	20	25	32
Hole standard	v	mm	12	20	20	32	40
depth of bore hole max.	s	mm	12	31	31	51	70
Total width	u	mm	70	100	125	150	92 / 202 / 202
Total height	t	mm	37	54	68	75	110
Depth of bore hole max.	t. max	mm	30	35	35	45	90

Measuring instruments

External micrometer

Gauge stand

Dial gauges

Digital caliper

Straight-edges

Bevel edges square

Digital position display

Measuring gib

and many more



Measuring

Name	Item No.	€ (VAT excl.)
Digital position display DPA 2000	338 4001	480.00
<ul style="list-style-type: none"> ■ Digital triaxial position display which is used for milling machines (X - Y - Z) and lathes (X, Z, Zo) ■ In the event of a power failure, the data is saved in the read-only memory ■ The travels of the top slide and the lathe saddle may be displayed separately and superimposed in a differentiating/compound circuit (Sz) ■ Display steps 0.01/0.005 mm ■ Switching between absolute/incremental dimensions ■ Parameter input ■ Reference mark evaluation ■ Easy operation and trouble-free self-assembly ■ Powerful microprocessor ■ Key pad ■ Optimum price/quality ratio ■ Wall unit supplied as standard ■ Unmounted 		



DPA 2000

Digital magnetic measuring system MPA 3 kit		
Includes:		
<ul style="list-style-type: none"> ■ 1 piece compact, digital 3-axis position display for milling machines (X-Y-Z) and for lathes (X, Z, Zo) with metal frame, magnetic stand ■ 3 pieces measuring tape with sensor MS100/1 (length according to the machine 15 - 80 cm). ■ Display accuracy 0.005 mm, special steel covering, self-adhesive ■ Contactless - maintenance-free - robust ■ User-friendly menu guidance 		
Suitable for:		
quantum D 210/D250; OPTI D 240	338 3903	799.00
OPTI D 280 x 700 G	338 3905	799.00
quantum BF 16 Vario	338 3911	799.00
OPTI BF 20 Vario	338 3912	799.00
Factory assembly MPA 3 with material	900 0420	580.00



MPA 3

Name	Item No.	€ (VAT excl.)
Measuring gib for DPA 2000		
<ul style="list-style-type: none"> ■ Totally enclosed odometry systems with high-precision glass measuring stick ■ Scanning carriage guided by miniature ball bearings and connected to the mounting base via coupling ■ Rubber sealing lip protects against dust, chips and splash water ■ Flexible insulating metal tube protects 3 or 4 m connecting cable (up to ML 620 - 4 m) 		
■ Unmounted		
ML 80 mm	338 4108	240.00
ML 100 mm	338 4110	240.00
ML 120 mm	338 4112	240.00
ML 170 mm	338 4117	240.00
ML 220 mm	338 4122	250.00
ML 270 mm	338 4127	250.00
ML 320 mm	338 4132	260.00
ML 370 mm	338 4137	280.00
ML 420 mm	338 4142	290.00
ML 470 mm	338 4147	300.00
ML 520 mm	338 4152	330.00
ML 570 mm	338 4157	350.00
ML 620 mm	338 4162	360.00
ML 670 mm	338 4167	360.00
ML 720 mm	338 4172	390.00
ML 770 mm	338 4177	420.00
ML 820 mm	338 4182	450.00
ML 870 mm	338 4187	460.00
ML 920 mm	338 4192	470.00
ML 970 mm	338 4197	495.00
ML 1,020 mm	338 4202	495.00
ML 1,250 mm	338 4225	670.00
ML 1,400 mm	338 4240	795.00
ML 1,520 mm	338 4252	870.00
ML 1,670 mm	338 4267	950.00
ML 1,940 mm	338 4294	1,050.00
ML 2,010 mm	338 4295	1,190.00
ML 3,000 mm	338 4300	1,950.00
Factory assembly (per measuring gib)	900 0410	250.00



ML 80 mm

Name	Item No.	€ (VAT excl.)
Digital external micrometer	338 5150	79.00
<ul style="list-style-type: none"> ■ Precision 0.002 mm ■ Printer port for DPM 3 (refer to page 43) ■ mm/inch conversion ■ Measuring surfaces made from hard metal ■ LCD display 0 - 25 mm 		



Name	Item No.	€ (VAT excl.)
Digital position display DPM 3	338 5203	259.00
<ul style="list-style-type: none"> ■ Digital triaxial position display which is used for milling machines (X-Y-Z) and lathes (X, Z, Zo) ■ For 3 axes ■ Precision 1/100 mm ■ LED display 107 x 62 mm ■ mm/inch conversion ■ Conversion to half measures ■ Magnet included ■ Automatic switch-off ■ Cable length 2 m ■ Dimensions 190 x 105 x 35 mm ■ For digital caliper gauge ■ Unmounted 		



Dial gauge	338 5090	16.00
<ul style="list-style-type: none"> ■ DIN 878 precision ■ Mat chromium plated metal housing ■ Clamping shank 8 mm ■ Division 0.01 mm ■ Measuring range 10 mm ■ Outer ring with two adjustable tolerance mark ■ Scale turnable with the outer ring for simple zeroing 		

Precision magnetic gauge stand	335 6650	19.00
<ul style="list-style-type: none"> ■ Measuring column \varnothing 12 mm x 181 mm ■ Swivelling/tiltable arm \varnothing 10 mm x 160 mm ■ Base (L x W x H) 50 x 62 x 55 mm ■ Adhesive force 50 kg ■ Dial gauge fixture with location hole for the dial gauge, indicating caliper, electrical longitudinal caliper 		

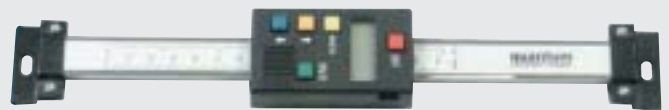


Figure dial gauge and gauge stand

Name	Item No.	€ (VAT excl.)
Digital caliper gauge with horizontal display (unmounted)		
For DPM 3		
■ MS H o - 100 mm	338 5210	50.00
■ MS H o - 150 mm	338 5215	65.00
■ MS H o - 200 mm	338 5220	70.00
■ MS H o - 300 mm	338 5230	80.00
■ MS H o - 400 mm	338 5240	95.00
■ MS H o - 500 mm	338 5250	150.00
■ MS H o - 600 mm	338 5260	180.00
■ MS H o - 800 mm	338 5280	260.00
■ MS H o - 1,000 mm	338 5300	360.00



Digital caliper gauge with vertical display (unmounted)		
For DPM 3		
■ MS V o - 100 mm	338 5310	65.00
■ MS V o - 150 mm	338 5315	80.00
■ MS V o - 200 mm	338 5320	82.00
■ MS V o - 300 mm	338 5330	95.00
■ MS V o - 400 mm	338 5340	109.00
■ MS V o - 500 mm	338 5350	160.00
■ MS V o - 600 mm	338 5360	195.00
■ MS V o - 800 mm	338 5380	299.00
■ MS V o - 1,000 mm	338 5400	390.00



Surface plate	338 5060	229.00
<ul style="list-style-type: none"> ■ 630 x 400 x 100 mm, 7 μ ■ Resistance to pressure 250-260 N/mm² ■ DIN 876/0 ■ Corrosion-proof ■ Granit ■ Thermally and dynamically stable 		



Battery SR 44 W; 1.55 V	338 5480	2.50
Suitable for:		
■ Digital caliper DS 150 /DS 300		
■ Digital caliper gauge MS V and MS H		
■ Digital height-measuring and scribing instrument		
■ Digital external micrometer		

Measuring

Name	Item No.	€ (VAT excl.)
External micrometer 6 pcs	338 5100	127.00
<ul style="list-style-type: none"> ■ 6 external micrometer from 0 - 150 mm ■ DIN 863 precision ■ Reading 0.01 mm ■ Mat chromium plated dials ■ Measuring spindle Ø 6.35 mm ■ Measuring surfaces made of hard metal ■ Yoke with hand guard ■ Micrometer drum Ø 17 mm ■ Ratchet spanner included ■ Spindle pitch 0.5 mm ■ Above 25 mm with setting gauge ■ Wooden box included ■ Measuring range 0 - 25 mm, 25 - 50 mm, 50 - 75 mm, 75 - 100 mm, 100 - 125 mm, 125 - 150 mm 		



Precision measuring tool kit MS 4	338 5030	39.00
<ul style="list-style-type: none"> ■ 5 pcs ■ Made of special steel ■ Caliper 150 mm x 0.05 mm ■ Bevel edge square DIN 875 / 110 mm x 70 mm ■ Ruler 150 mm ■ Micrometer 0 - 25 x 0.01 mm ■ PVC box 		



Name	Item No.	€ (VAT excl.)
Digital height gauge	338 5050	169.00
<ul style="list-style-type: none"> ■ Measuring range 300 mm ■ Printer port for DPM 3 (see page 43) ■ 5 digits ■ Reading accuracy ± 0.01 mm ■ mm/inch conversion ■ Base 110 x 50 mm ■ Total height 430 mm ■ Net weight 2.1 kg ■ Stainless steel bar ■ HM-coated marking leg 		



Digital caliper		
<ul style="list-style-type: none"> ■ 5-digit LCD display ■ Protected against oil and dirt ■ mm/inch conversion ■ Repeating accuracy ± 0.01 mm ■ Depth gauge ■ Printer port for DPM 3 (see page 43) ■ Reading 0.01 mm ■ Spare battery ■ Plastic protective case 		
■ DS 150	338 5015	33.00
■ DS 300	338 5023	79.00



DS 150

Precision spirit level	338 5064	79.00
<ul style="list-style-type: none"> ■ Prismatic base for aligning horizontal surfaces and shafts ■ Precision 0.02 mm/m ■ Length 200 mm ■ The compact and tension-free installation of the parallel vial ensures constant precision ■ No time-consuming adjusting ■ Cross vial and thermal insulation handle ■ Wooden box included 		



Metal belt saws

quantum S 91 G
quantum S 121 G
quantum S 181

Disc sander

quantum TS 305

Bench grinders

quantum QSM 150
quantum QSM 175
quantum QSM 200

Folding press

quantum FP 30

Three-cylinders-bending machine

quantum BM 3

Arbor presses

quantum DDP 1
quantum DDP 2
quantum DDP 3



Metal belt saws

quantum S 91 G / quantum S 121 G

Light-duty belt saws for working metals and plastics with mitre-swivelling saw arch, ideal for use on construction sites

Convincing arguments: quality, efficiency and price

- Automatic limit stop (only S 120 G)
- Ball bearing 3-point saw belt guide
- Three speed steps for a wide applied material range
- Automatic limit stop after finishing of the saw action (only S 121 G)
- Saw bow swivable from 0° to 45° to enable angled saws
- Easy-to-read scale for angular adjustment
- S 121 G with standard quick acting screw vice
- Feed adjustable with spring
- Saw belt voltage about handwheel at the front
- Material gauge
- Inclusive suitable substructure (only S 121 G)

New



quantum S 91 G

quantum S 121 G

Model	quantum S 91 G	quantum S 121 G
Item No.	330 0091	330 0121
€ (VAT excl.)	199.00	249.00

Technical data	quantum S 91 G	quantum S 121 G
Cutting range at 0° <input type="radio"/>	90 mm	115 mm
Cutting range at 0° <input type="checkbox"/>	90 x 130 mm	100 x 150 mm
Cutting range at 45° <input type="radio"/>	65 mm	100 mm
Cutting range at 45° <input type="checkbox"/>	65 x 50 mm	85 x 65 mm
Speeds	20/29/50 m/min	21/31/54 m/min
Saw belt dimension	1,300 x 12.7 x 0.5 mm	1,638 x 13 x 0.65 mm
Motor power / 50 Hz	250 W / 230 V	370 W / 230 V
Dimensions (L x W x H)	710 x 260 x 410 mm	1,020 x 410 x 400 mm
Net weight	26 kg	56 kg

Extent of supply:

- Bimetallic saw belt (10-14 Tpl)
- Material gauge
- Substructure (only S 121 G)

Accessories	Item No.	€ (VAT excl.)
■ Bimetallic saw belt HSS S 91 G 1,300 x 13 mm (10-14 Tpl)	335 1509	14.00
■ Bimetallic saw belt HSS S 121 G 1,638 x 13 mm (10-14 Tpl)	335 1518	17.00

quantum S 181

Robust belt saw for metal working with continuously adjustable hydraulic lowering

Convincing arguments: quality, efficiency and price

- Robust cast iron design
- Chip brush
- Silent operation
- Automatic limit stop
- Ball bearing 3-point saw belt guide
- Three speeds selectable by changing the V-belt position
- Quick-action vice swivel from 0° to 45°
- Lowering using hydraulic system with continuous adjustment



Model	quantum S 181
Item No.	330 0181
€ (VAT excl.)	990.00

Technical data	
Cutting range at 0° <input type="radio"/>	178 mm
Cutting range at 0° <input type="checkbox"/>	178 x 240 / 50 x 300 mm
Cutting range at 45° <input type="radio"/>	110 mm
Cutting range at 45° <input type="checkbox"/>	170 x 110 mm
Speeds	21/33.5/45/50 m/min
Saw belt dimension	2,362 x 19 x 0.9 mm
Motor power 400 V / 50 Hz	750 W
Dimensions (L x W x H)	1,295 x 450 x 1,060 mm
Net weight	130 kg

Extent of supply:

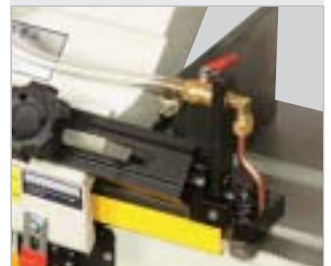
- Depth stop
- Coolant system
- Bimetallic saw belt (10 - 14 Tpl)

Accessories	Item No.	€ (VAT excl.)
■ Bimetallic saw belt M 42 HSS (6-10 Tpl)	335 7521	25.00
■ Bimetallic saw belt M 42 HSS (10-14 Tpl)	335 7520	25.00

Convincing arguments...



- Lowering of the saw arch using a hydraulic supporting cylinder with continuous advance



- Ball bearing 3-point saw belt guidance, sustainable and easily adjustable
- Coolant system as standard



- Quick-action vice with mitre-swivelling clamping jaws from 0 - 45°



- Big wheels and handy transport strap allow trouble-free position change of the metal belt saws

Bench grinders

Bench grinders from quantum.

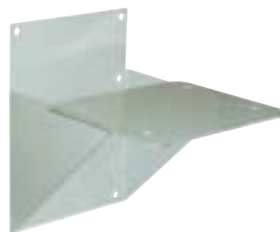
A quality product with an excellent price-quality ratio

Convincing arguments: quality, efficiency and price

- Robust quality bench grinders for professional metal working
- Heavy-duty, sustainable model with maintenance-free motor for permanent use
- Housing made from aluminum die casting
- Balanced rotor with quality ball bearings ensures life with very smooth running
- Robust, adjustable workpiece rest
- Two universal corundum grinding wheels
- 3 year-warranty



Accessories	Item No.	€ (VAT excl.)
Wall unit	310 7050	29.00
Overall dimensions (L x W x H): 280 x 300 x 230 mm		
Substructure	310 7100	49.00
Overall dimensions L x W x H): 320 x 270 x 820 mm		
Spare grinding wheels		
Coarse standard corundum K 36		
■ Ø 150 x 20 Ø 16 mm	310 7150	7.00
■ Ø 175 x 20 Ø 32 mm	310 7170	10.00
■ Ø 200 x 25 Ø 32 mm	310 7200	13.00
Fine standard corundum K 80		
■ Ø 150 x 20 Ø 16 mm	310 7155	7.00
■ Ø 175 x 20 Ø 32 mm	310 7175	10.00
■ Ø 200 x 25 Ø 32 mm	310 7205	13.00



Wall unit



Substructure

Convincing arguments...



- Robust, adjustable and inclinable workpiece rest



- Balanced rotor with quality ball bearings ensures sustainability with very smooth running
- Two universal corundum grinding wheels



- Safety guards on any grinding wheel reduce the flying of sparks

Model	QSM 150	QSM 175	QSM 200
Item No.	310 1815	310 1817	310 1820
€ (VAT excl.)	65.00	75.00	85.00

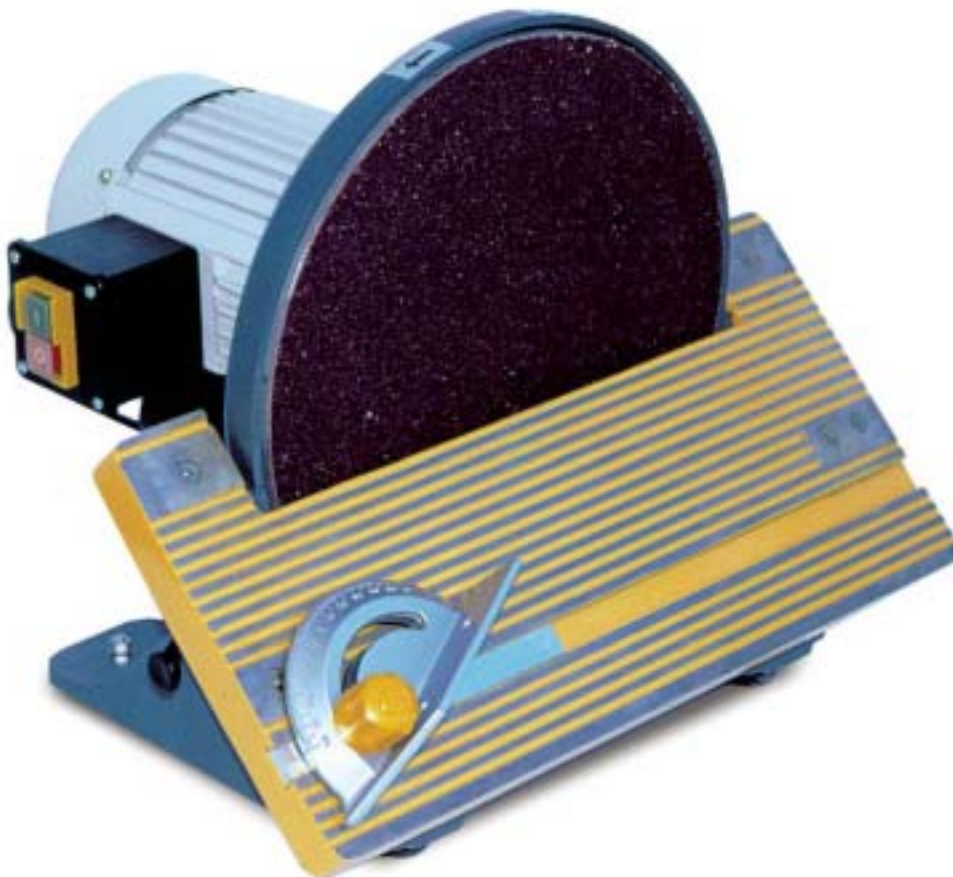
Technical data	QSM 150	QSM 175	QSM 200
Grinding wheel dimensions	Ø 150 x 20 Ø 16 mm	Ø 175 x 20 Ø 32 mm	Ø 200 x 25 Ø 32 mm
Grain	K36P / K80N	K36P / K80N	K36P / K80N
Speed	2,850 rpm	2,850 rpm	2,850 rpm
Motor power 230 V / 50 Hz	450 W	450 W	450 W
Dimensions (L x W x H)	200 x 410 x 295 mm	220 x 420 x 300 mm	245 x 450 x 330 mm
Net weight	11 kg	13 kg	14 kg

quantum TS 305

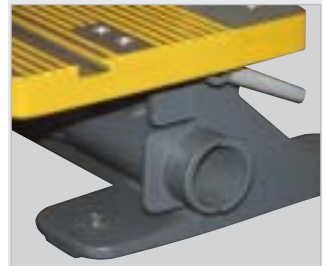
Disc sander for metal working

Convincing arguments: quality, efficiency and price

- Wide range of applications
- for rough, finish and form grinding of any type of material
- Grinding table swivel from -45° to +45°
- Mitre cheek with a swivel of -60° to +60°, supplied as standard
- Balanced aluminum disc plate for smooth running
- Powerful motor



Convincing arguments...



- Suction hole for connecting a suction device, incorporated as standard
- nominal width inside about 40 mm
- nominal width outside about 52 mm



- Mitre cheek with a swivel + / - 60° as standard



- Grinding table swivel + / - 45°

Extent of supply:

- Adjustable angular cheek
- Disc plate

Model	quantum TS 305
Item No.	331 0305
€ (VAT excl.)	179.00

Technical data	
Abrasive disc Ø	305 mm
Speed	1,420 rpm
Motor power	900 W / 230 V / 50 Hz
Dimensions (L x W x H)	360 x 440 x 400 mm
Net weight	26.5 kg

Accessories	Item No.	€ (VAT excl.)
■ Velcro rest	335 7801	12.90
Grinding disc - with Velcro		
■ Ø 305 mm K 40*	335 7854	9.90
■ Ø 305 mm K 60*	335 7856	9.90
■ Ø 305 mm K 80*	335 7858	8.90
■ Ø 305 mm K 100*	335 7860	8.90
■ Ø 305 mm K 120*	335 7862	8.90
■ Ø 305 mm K 150*	335 7865	8.90

*Packaging unit and price unit **5 pcs**

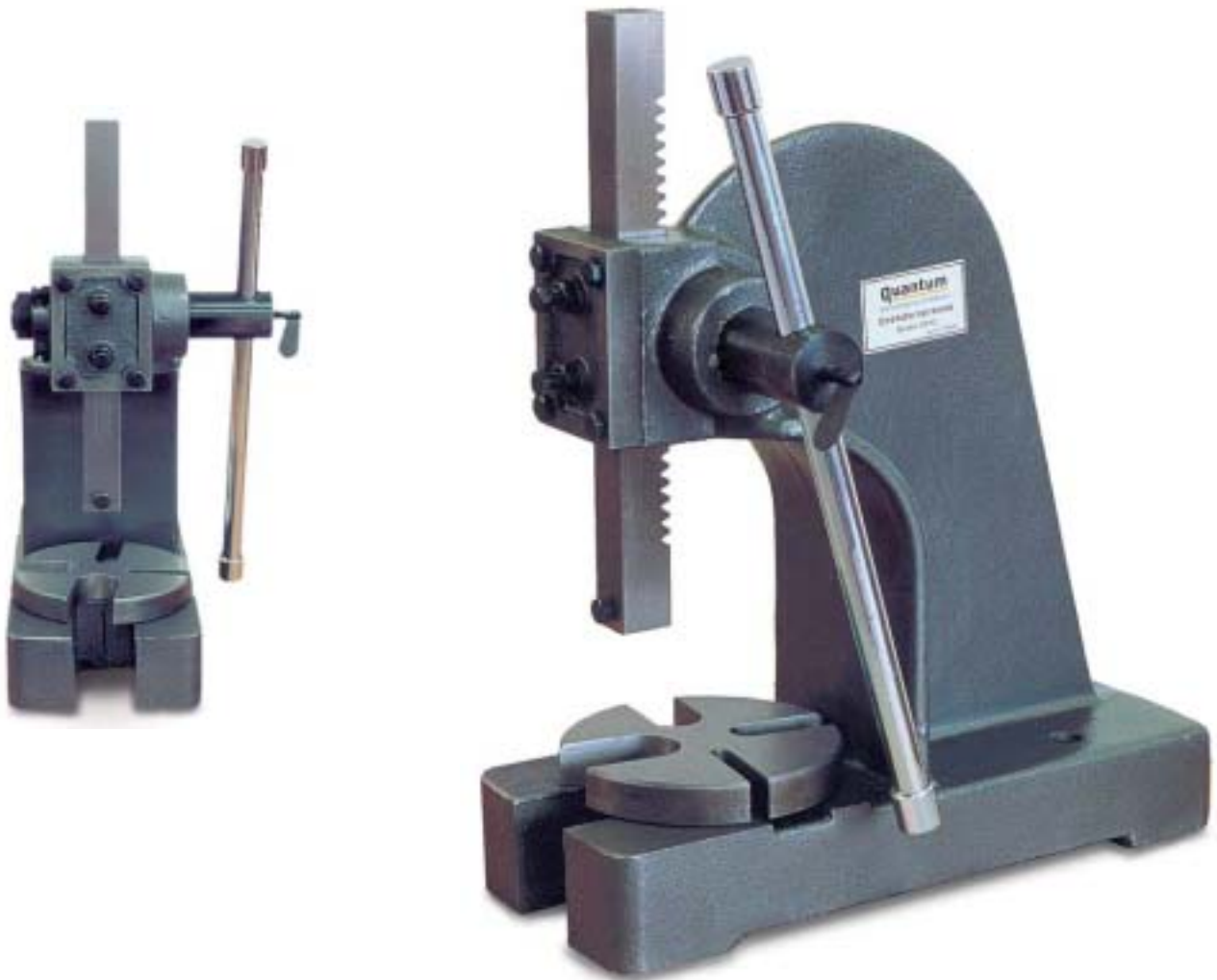
Arbor presses

quantum Arbor presses

Precision arbor press robust and solid construction.
For mechanical workshops and repair workshops

Convincing arguments: quality, efficiency and price

- For seating and removing bearings, arbors, cans, spindle, pins
- Robust design
- Body made of high-grade grey cast iron
- Pinion and ram made of chromed steel
- Variable adjustable lifting rod
- Integrated restoring spring
- 4-slot table plate
- For mounting at a work bench
- 3 different models



Extent of supply:

- Lever rod
- 4-slot table plate

Model	DDP 1	DDP 2	DDP 3
Item No.	335 9001	335 9002	335 9003
€ (VAT excl.)	55.00	95.00	149.00

Technical data			
Workpiece height max.	123 mm	195 mm	310 mm
Working range	95 mm	135mm	160 mm
Pressure applied	1 tonnes	2 tonnes	3 tonnes
Ram dimensions (L x W x H)	25 x 25 x 245 mm	31 x 31 x 336 mm	40 x 40 x 455 mm
Dimensions (L x W x H)	270 x 130 x 325 mm	430 x 175 x 445 mm	455 x 205 x 575 mm
Net weight	17 kg	45 kg	69 kg

Folding press quantum FP 30 Three-cylinders-bending machine quantum BM 3 Universally usable

Convincing arguments: quality, efficiency and price

- Folding press quantum FP 30 for bending and bevelling sheet metal
- With loose bend cheek segments
- Comfortable swing of bend cheek via the lever
- For the using at the vise



quantum FP 30



Convincing arguments: quality, efficiency and price

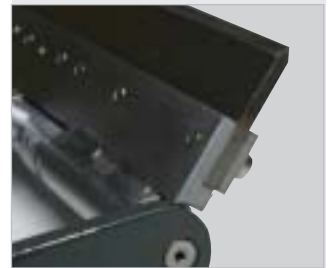
- **Three-cylinders-bending machine quantum BM 3** for bending and rolling of wires, tubes and sheet metal
- Ground bending cylinders
- Bedded steel side cheeks (self-lubricating)
- Two detachable unwinding cylinders
- Separate setting option for material thickness and rolling radius
- For the use at vises
- Stable supporting surface



quantum BM 3



Convincing arguments...



■ High-quality bend cheek



■ Loose edging segment pieces
150 mm / 75 mm / 50 mm /
25 mm



■ Kit screws for material
thickness
■ Ground bending cylinders



■ Bending and rolling of wires,
tubes and sheet metal
Ø 1 - 2 - 3 - 4 - 5 mm

Model	quantum BM 3
Item No.	324 4030
€ (VAT excl.)	129.00

Model	quantum FP 30
Item No.	324 4028
€ (VAT excl.)	119.00

Technical data	
Material width (max.)	310 mm
Bending-Ø (min.)	35 mm
Bending-Ø (max.)	unlimited
<i>Curling thickness (max.):</i>	
Sheet metal St. 37	1 mm
High-grade steel	1 mm
Aluminum/copper	2 mm
Brass	1 mm
Gold/silver/tinplate	2 mm
Narrow widths	3 mm
Round material	1 - 5 mm
Unwinding cylinder-Ø	30 mm
Net weight	10.5 kg

Technical data	
Material width (max.)	320 mm
Sheet thickness (max.)	2,5 mm
<i>Folding capacity:</i>	
Aluminum/Copper	300 x 2 mm
Sheet metal	300 x 1 mm
Net weight	13 kg

Machines are CE compliant

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