



Multiversatile equipment for delicate projects. Precise and quiet. With quick change chuck for 0.3 – 3.2mm shanks.

Precision drill/grinder FBS 240/E Strength lies in calm!

For drilling, milling, grinding, polishing, cleaning, carving and engraving.

The maximum speed of 20,000rpm is continuously variable down to 5,000rpm. The full wave electronic speed control results in virtually constant torque, even at lower speeds, in turn facilitating micro drilling, cleaning and polishing. The spindle runs in a precision ball bearing and is lifted with a lock button. The 20mm collar fits MICROMOT drill stands and vices.

The machine is fitted with a special, balanced, low noise DC motor with high life expectancy. Stable housing of glass-fibre reinforced POLYAMIDE with soft components in the finger grip area.

Complete with 43 quality inserts in a sturdy plastic case.

Technical data:

5,000 – 20,000rpm. Maximum power consumption 100W, 220 - 240V. Length 200mm. Weight 450g. Insulated according to class 2 requirements. Keyless chuck with 0.3 – 3.2mm capacity.

NO 28 472



Stable housing of glass-fibre reinforced POLYAMIDE with soft components in the finger grip area.

Note:

The FBS 240/E may also be fitted with the optional MICROMOT steel collets (see page 22).

Complete with 43 high-quality bits and cutters in a durable polypropylene case.





*Precision electrical tools. Genuine single handed use.
With die-cast aluminium heads. Quiet, precise and efficient!*

Professional drill/grinder IB/E

- For drilling, milling, grinding, polishing, cleaning, cutting, carving, engraving and signing.
- For precision mechanics, model builders, jewellers, opticians, artists and electronic enthusiasts.



With 34 bits and cutters of industrial quality, all shafts \varnothing 2.35mm. Complete with six triple slit steel collets covering 1.0 to 3.2mm (see page 22).

High concentric accuracy (maximum runout 3/100mm). No runout in your bits and cutters.

This high-revving, special balanced, low noise DC motor has full-wave electronic speed control. The ground steel spindle runs in a ball bearing. Six high concentricity MICROMOT collets, (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm and closure nut) are included.



Technical data :

Speed 5,000 to 20,000rpm. Power consumption (max) 100W, 220 – 240V. Stable head of die-cast aluminium and main housing of glass-fibre reinforced POLYAMIDE. Length 230mm. Weight approx. 500g. Insulated to class 2. The 20mm MICROMOT collar allows fitting of optional drill stands, horizontal stands, etc. Supplied with 34 bits and cutters in a stable plastic case.

NO 28 481

Note:

MICROMOT steel collets are hardened and thus have a high, consistent flexibility. ① They also maintain prolonged accuracy, even after regular use (these collets should not be compared with unhardened, four-slit collets of brass and aluminium). The triple slit collet is substantially more difficult to manufacture than the four-slit type,

② but offers a better load-bearing surface. ③

This is especially important for cutters with small shaft diameters. Also see page 22.



Note: The equipment offered is supplied in a new storage case made from highgrade polypropylene. It is attractive, extremely stable and sufficiently large to enable the machine to be replaced in it after completion of the work without fiddly refitting. A clear label on the side identifies the contents.



Problem solution: unit with long and slender spindle neck for working in tough-to-reach areas (also in hollow objects).

Long neck angle milling/drilling unit WB 220/E



With a set of gears running on several ball bearings in a stable, die-cast aluminium housing head.

Also suitable for right-angled separation of rods. With a special balanced, powerful, quiet and long-lasting DC motor. Infinitely variable rpm (full wave electronics). Main housing is made of glass-fibre reinforced POLYAMIDE.

Safely stored in an attractive and extremely stable case made from high-grade polypropylene, as described on the left.

With MICROMOT hardened steel collets (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm).

Technical data:

220 – 240V. 100W. 3,000 – 15,000rpm. Length 270mm. Weight 550g. Insulated to class 2.



NO 28 492

Long neck straight drill/grinder LB/E



Head of die-cast aluminium with 100mm long spindle neck (and 20mm MICROMOT collar).

Ideal for internal grinding and the use in slots and channels. Special balanced, powerful, quiet and long-lasting DC motor. Variable (full wave) electronic speed control; main housing of glass-fibre reinforced POLYAMIDE. MICROMOT collets (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm). Well presented in a plastic case.



Safely stored in an attractive and extremely stable case made from high-grade polypropylene, as described on the left.

Technical data:

220 – 240V 100W. 5,000 – 20,000/min.Length 300mm. Weight 630g. Insulated to class 2.

NO 28 485

Pocket drilling machine COLT 2

Tough and durable special balanced, powerful, quiet and long-lasting DC motor.

Quiet planetary gear gearbox of die-cast aluminium (main housing made of glass-fibre reinforced POLYAMIDE).

Handy switch with integrated electronic speed control and lock. The RÖHM chuck allows the precision removal of the inserts. Safely stored in an attractive and extremely stable case made from high-grade polypropylene, as described on the left.

Technical data:

220 – 240V. 100W. 0 – 3,000rpm. RÖHM chuck capacity 0.5 – 6mm. Capacity in steel 5mm. Length 225mm. Weight 900g. Insulated to class 2.

NO 28 490





The long, slim head of die-cast aluminium makes the LWS ideal in numerous applications, even parting.

Long neck angle grinder LWS



For working steel, non-ferrous metals, glass, ceramics, wood and plastic. For cutting, rough-machining, grinding, precision polishing, fine polishing and carving wood. Special balanced, powerful, quiet and long-lasting DC motor. Stable head mad of glass-fibre reinforced POLYAMIDE. A corundum grinding disc (grit 60), a fan sanding disc (grit 100) and a reinforced cutting disc are included. Safely stored in an attractive and extremely stable case made from polypropylene.

Technical data:

220 – 240V. 100W. 13,000rpm. Disc diameter 50mm with 10mm interval. Length 270mm. Weight 550g. Run down time less than 1 second. Insulated to class 2.

NO 28 547



Backing disc for LWS

Self-adhesive type, for use with corundum bound sanding discs and san-ding fleece. Ø 50mm.

NO 28 548 1 piece



Corundum sanding discs for LWS

Self-adhesive type, used on flat and convex surfaces. Ø 50mm.

NO 28 549 80 grit 12 pieces
 NO 28 550 120 grit 12 pieces
 NO 28 551 180 grit 12 pieces
 NO 28 552 240 grit 12 pieces



Sanding fleece for LWS

Self-adhesive type, used for cleaning, matting and sanding of steel, stainless steel and non-ferrous metals. Also used for paint removal. Ø 50mm.

NO 28 554 medium 5 piece
 NO 28 555 fine 5 piece



Corundum grinding disc for LWS

Used for de-burring, grinding, sharpening and de-rusting steel and non-ferrous metals. Ø 50mm.

NO 28 585 60 grit
 NO 28 586 36 grit



Silicon carbide grinding discs for LWS

Used on hard materials such as glass, stone, ceramics and even hardened steel. Ø 50mm

NO 28 587 60 grit



Corundum fan sander for LWS

For grinding tempe-red cast iron, cast iron, stainless steel, non-ferrous metals, wood and plastic. Low wear-resistant. Ø 50mm.

NO 28 590 100 grit
 NO 28 591 150 grit



Corundum bound cutting disc for LWS

With woven reinforcement, 50 x 1 x 10mm. For cutting steel, non-ferrous metals, plastic and wood. Ø 50mm.

NO 28 154

Rasp plate with metal burrs made from wolfram carbide for LWS



NEW



For model-making, cleaning and smoothing of wood, plastics and glass-fibre reinforced objects. No expenditure of effort is needed, easy and precise handling. Not suitable for metal processing.

NO 29 050



The equipment offered is supplied in a new storage case made from high-grade polypropylene. It is attractive, extremely stable and sufficiently large to enable the machine to be replaced in it after completion of the work without having to 'fiddle'. A label on the side identifies the contents.



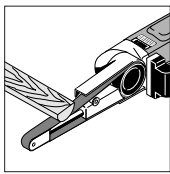
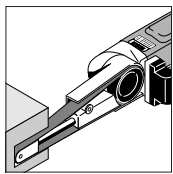
*Small, torque resistant, solid and versatile
Die-cast aluminium heads for high stability!*

Belt sander BSL 220/E



For shape finishing, mortising, fine polishing (flat surfaces). Also for de-burring metal, paint removal and fine finishing.

Head of die-cast aluminium for high stability and precise ball bearing fitting.



Main housing made of glass-fibre reinforced POLYAMIDE.

Variable (full wave) electronic speed control. The head rotates through 60°. Complete with 2 off 80 and 2 off 180 grit belts.

Safely stored in an attractive and extremely stable case made from high-grade polypropylene, as described on the left.

Technical data

220 – 240V. 100W. Belt size 10 x 330mm (usable sanding area 10 x 110mm). Belt speed 300 – 700rpm. Length 350mm. Weight 650g. Insulated to class 2.

NO 28 536

Replacement belts for BSL 220/E



Corundum on tear-resistant, woven backing. Sands metal, non-ferrous metals, wood and plastics efficiently. 10 x 330mm.

NO 28 583	80 grit	5 pieces
NO 28 582	120 grit	5 pieces
NO 28 581	180 grit	5 pieces

Identical with the foregoing item, but with burrs made from silicon carbide for grinding and de-burring of glass and ceramics. Also suitable for grinding brass, steel and cast iron.

NO 28 579	180 grit	5 pieces
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The head rotates through 60°.



Super jig saw SS 230/E



Note:

The alternative 12V jig saw STS 12/E is described on page 14.

This unit offers fantastic and precise cutting capacity.

Stable head of die-cast zinc for precise fitting.

The housing head is made of glass-fibre reinforced POLYAMIDE. Special balanced, low noise DC motor with high life expectancy. The stroke speed is variable by means of full wave electronic speed control. Footplate adjustable up to 45° for mitre cuts. Ideal for tight curves in wood (up to 12mm), PC cards to 5mm and non-ferrous metals to 3mm. Complete with 4 super-cut sawing blades of various pitches for wood, plastic and metal. Safely stored in an attractive and extremely stable case made from high-grade polypropylene, as described on the left.

Technical data:

220 – 240V. 100W. Stroke speed of 2,000 – 4,500/min. Length 230mm. Weight 700g. Insulated to class 2.

NO 28 530

Jig saw blades made of special steel

Pitch of 1.06mm, teeth ground and set. Usable on hard and soft woods, plywood, fibreglass reinforced sheets as well as soft plastics. Fits SS 230/E and STS 12/E.

NO 28 054	Pack of 2
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Jig saw blades made of HSS

Tooth pitch of 1.5mm, with teeth set and ground. Usable on metals, non-ferrous metals, aluminium and softer alloys, fibreglass, Plexiglass and insulating materials. Fits SS 230/E and STS 12/E.

NO 28 056	Pack of 2
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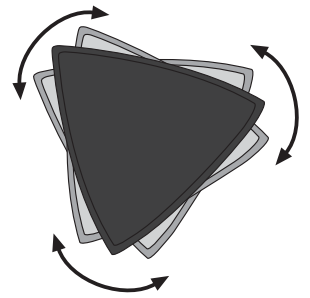
*Oscillating motion far better than conventional orbital motion.
Hence suitable for cutting and precision carving.*

Delta sander OZI 220/E



Head of die-cast zinc, ensuring exact and stable housing for the moving parts. Allows precise and stable storage of moving parts.

Sanding area 65 x 65 x 65mm with gummed pads allows quick changing.



The oscillating motion ensures lack of vibration and kickback and allows the fitting of cutting blades too!



The OZI 220/E and BBS/S are also supplied in a new storage case made from high-grade polypropylene.

Small yet efficient sander!

For grinding surfaces in very tight spots, e.g. corners, sides and inaccessible areas. The oscillating motion ensures quiet operation and also facilitates cutting. Insert and file! The variable speed facility ensures the correct speed for every material. Special, balanced, low noise DC motor with high life expectancy. Main housing of glass-fibre reinforced POLYAMIDE. Complete with 4 sanding discs (2x 80 grit, 1x 150 grit and 1x 240 grit). In an attractive case, as described on the right.

Technical data:

220 – 240V. 100W. Sanding frequency of 3,000 – 10,000rpm. Length 230mm. Weight 550g. Insulated to class 2.

NO 28 520

The OZI cuts in those cases where a rotating saw blade can no longer be used (in this case using the HSS separation blade, see p. 9).

For precision square excavations, are now available HSS immersion saw blades with an 8 and 14mm width of cut.



Diamond files for OZI

For dulling, de-burring and post-processing of glass, porcelain and ceramics. For grinding and de-burring of hardened and unhardened steel. A radius on one side makes it possible to work at round, recessed spots. Width 25mm. Immersion depth 20mm.

- NO 28 906** 120 grit
- NO 28 907** 180 grit



NEW

HSS immersion saw blades for OZI

For exact square excavations and other forms. For making hatchways and windows in ship and aircraft models. Cuts wood, plywood, plastics and aluminium. Max. immersion depth 16mm.

- NO 28 897** Saw blade width 8mm
- NO 28 898** Saw blade width 14mm



NEW

Compact, light and well balanced. Now with an extra powerful drive for a high material removal capacity.

Sanding pads for OZI 220/E



High durability corundum (aluminium oxide) pads. Grain fill-led with special filler to prevent premature clogging. Deposited on special backing paper. Self-adhesive.

Standard packing

- NO 28 880** 80 grit 5 pieces
- NO 28 882** 150 grit 5 pieces
- NO 28 886** 240 grit 5 pieces

Bulck packing

- NO 28 891** 80 grit 25 pieces
- NO 28 893** 150 grit 25 pieces
- NO 28 895** 240 grit 25 pieces

HSS cutting blade for OZI

Oscillates, making it ideal for cutting metal, wood, PC cards, plastics, plaster of Paris and many other materials.



The segment cut facilitates exact cutting right into corners.

NO 28 900 ø 65mm

Diamond cutting blade for OZI

Operation as described above for the HSS blade. Cuts marble, bricks, dry walling and many other materials.



Ideal for interior finishing and sanitary and electrical installation.

NO 28 902 ø 65mm

Flexible spatula made from spring steel for OZI



Suitable for the removal of paint, adhesive residues (tile adhesive), for digging out old silicone from joints, but also for treating cars (abrasion of tar and underbody protection). 50 x 70mm.

NO 28 904

Belt sander BBS/S

NEW



Powerful special DC motor, quiet and long-lasting.

Left-justified band grinder, making it possible to process surfaces 'right to the corner'. Fine adjustment of rollers prevents lateral rolling off. Easy replacement of bands by means of a spring tension system without the use of tools. Housing is made of glass-fibre reinforced POLYAMIDE. Complete with screw clamp and with 5 x 120 grit and 240 grit grinding bands.

Supplied in a practical case as described on page 8.

Technical data:

220 – 240V. 150W. Grinding band 40 x 265mm. Grinding surface 60 x 40mm, band speed 160m/min. Length 175mm. Weight 700g. Class 2 insulation..

NO 28 526



The BBS/S is also intended for stationary use. A screw clamp is included.

Grinding bands made from high-quality corundum (aluminium oxide)

Mounted on a high-performance support. For the grinding of metal, non-ferrous metals, wood and plastics. 40 x 265mm.

- NO 28 922** 80 grit 5 pieces
- NO 28 924** 120 grit 5 pieces
- NO 28 926** 180 grit 5 pieces
- NO 28 928** 240 grit 5 pieces



MICROMOT tool holder

For stationary use of MICROMOT electrical precision tools with metal head in combination with a vise.

Especially suited for industrial drill/grinder IB/E, belt sander BSL 220/E, longneck angle grinder LWS, super jig saw SS 230/E and delta sander OZI 220/E. Made of glass-fibre reinforced POLYAMIDE.

NO 28 410



Motor-driven carving device MOS

NEW



3 Japanese knife inserts made from bimetel are included.

For the carving of all types of wood. For the restoration of furniture. For the restoration of antiques. For linocuts and precision paint removal.

It is also possible to process plaster. Special, balanced, low noise DC motor with extreme high life expectancy. Gear hear made of die-cast aluminium. Main housing of glass-fibre reinforced POLYAMIDE. Three high-grade Japanese knife inserts made from bimetel (U-form, V-form ad flat blade) are included. In an attractive and extremely stable case made of high-grade polypropylene.

Technical data:

220 – 240V. 50W. Stroke speed 10,000rpm. Length 230mm. Weight 680g. Class 2 insulation.

NO 28 644



The MOS offered is supplied in a new storage case made from high-grade polypropylene. It is attractive, extremely stable and sufficiently large to enable the machine to be replaced in it after completion of the work without having to 'fiddle'. A label on the side identifies the contents.

Replacement carving knife inserts for MOS

Super-quality of bimetel (made in Japan). One each V-form, large and small rounding-off, flat with a straight and a rounded end.

NO 28 572



Multiform grindstone

For the aforementioned carving blades. Pre-profiled. A pure oilstone for knife-sharp cutting.

NO 28 578 100 x 63 x 15mm



New for wood processing: insertion tools with wolfram carbide burrs for model-making, cleaning and smoothing of wood and glass fibre reinforced synthetics. Not suitable for metals!

Extremely sharp and easy to handle; material is removed in a controlled manner, without the application of force, working along or against wood grain. High resistance and easy to clean, using a Bunsen burner. Also suitable for rubber, plastic foam and silicone. For working at 5,000- to 20,000rpm. Shafts 3,2mm.

- | | | |
|------------------|--------------------------|------------|
| NO 29 062 | Cone | 8,0 x 12mm |
| NO 29 060 | Cylinder with round head | 7,5 x 12mm |
| NO 29 064 | Taper | 4,0 x 19mm |



NEW



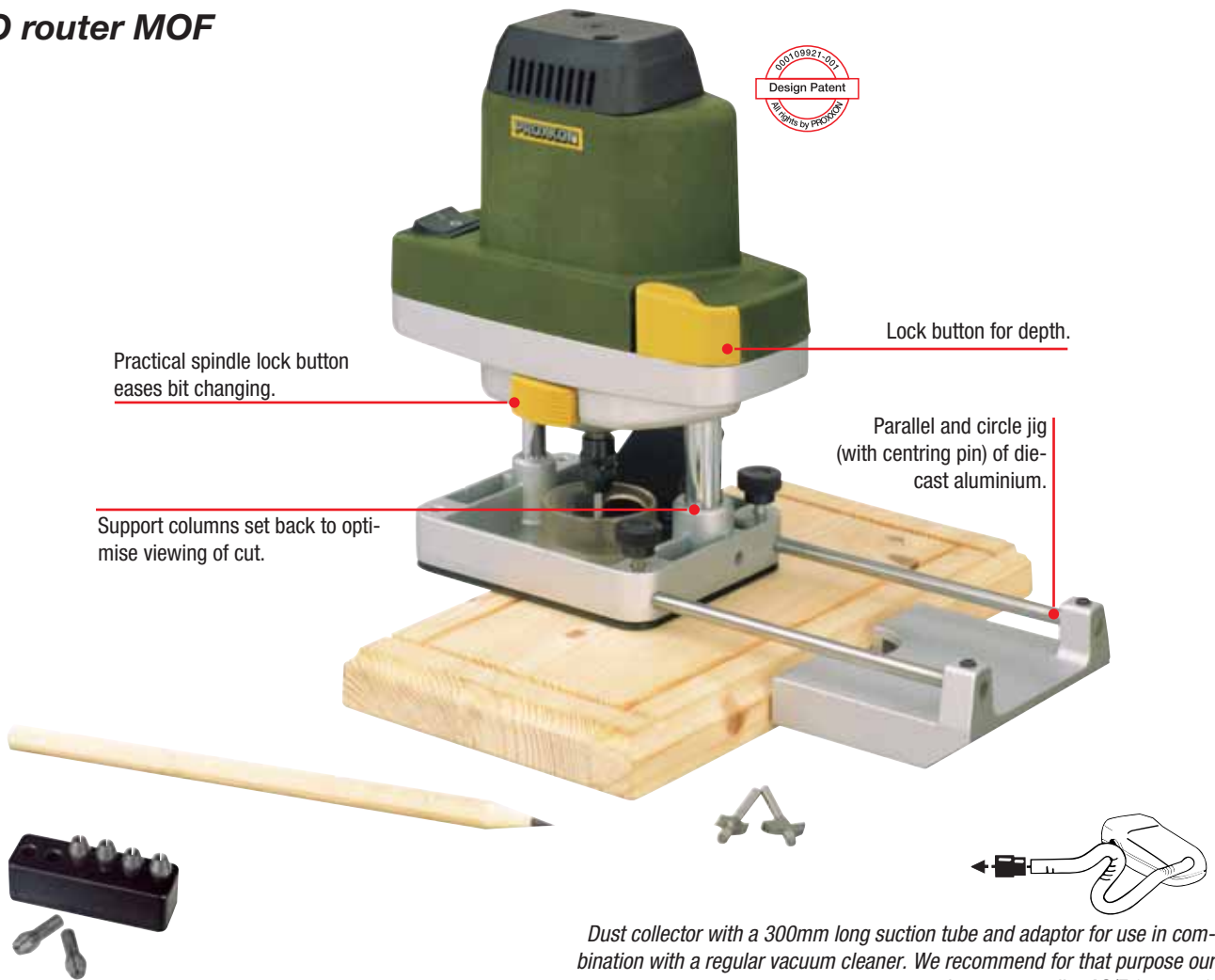
Note:

The new wolfram carbide rasp plate is ideal for woodcarvers and as a supplement for a motorised carving machine (material as described earlier) in connection with our LWS long-neck corner grinder. Details on page 6.



*Small, handy, precise and particularly easy to handle.
Main housing of die-cast aluminium.*

MICRO router MOF



Ideal for slotting, rounding over, counter boring and stock removal in wood, plastic, acrylic plastic, MDF, URIOL, ceilings and many more. Powerful universal AC motor. Base housing of die-cast aluminium and face of smooth gliding synthetic material. Main housing of glass-fibre reinforced POLYAMIDE. With MICROMOT collets (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm). Parallel and circle jig and fitted with a dust collector.

Technical data:

220 – 240V. 130W. Footprint 70 x 100mm. Total height 180mm. Weight 1,400g. Class 2 insulation.

NO 28 568

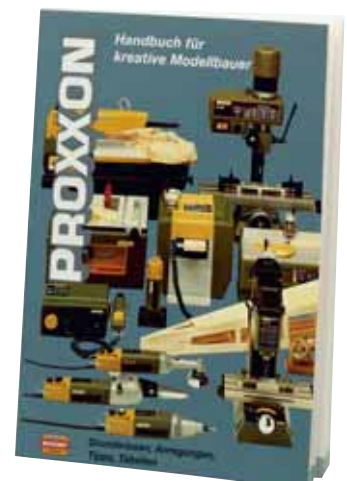
Manual for creative model-makers

Over 280 pages of information and tips from all areas of model building. All illustrations in colour.

Attractively produced, this book affords a good insight into the areas of materials and their application possibilities. It describes tools and work techniques in general and gives comprehensive technical explanations concerning MICROMOT devices and available accessories.

A large portion is devoted to practical tips and a clear appendix of useful tables completes the contents of this helpful manual. German only!

NO 28 996



Note:
Wood router cutters are offered on page 27.

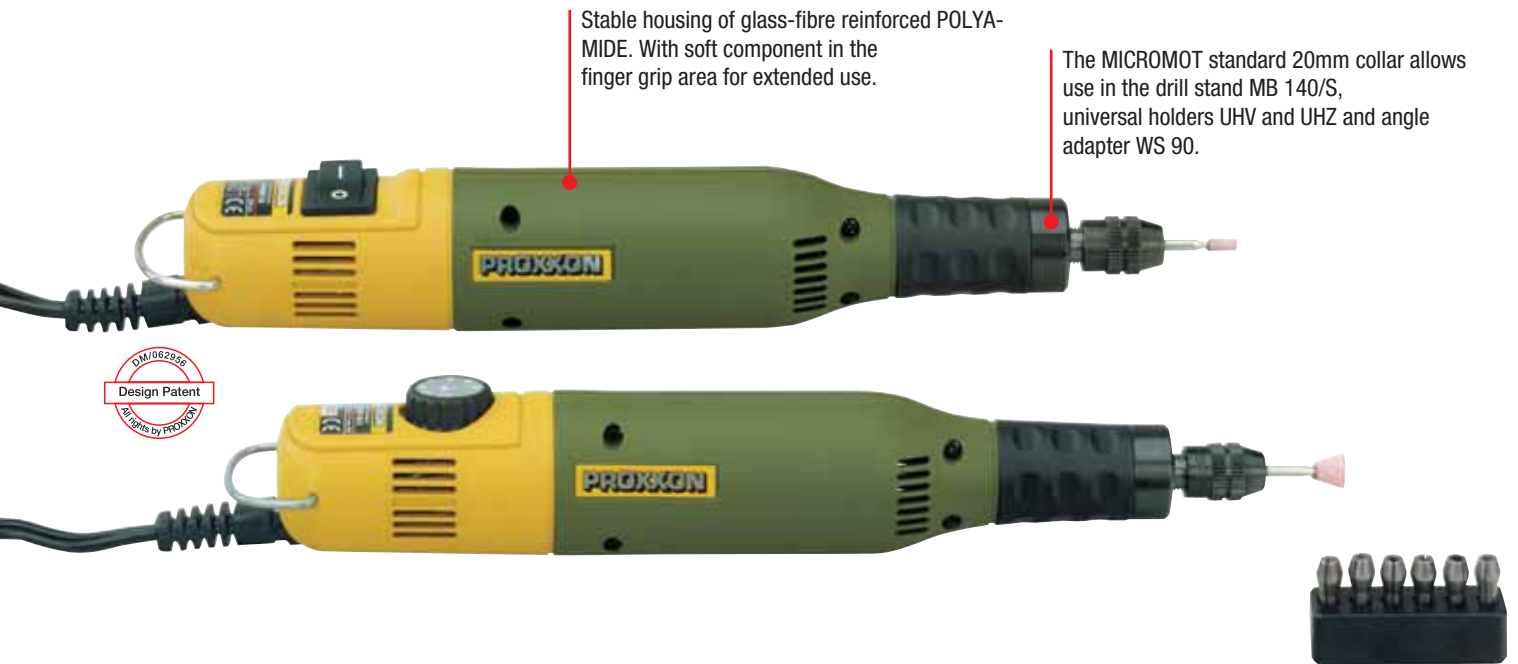


Precision milling/drilling machines MICROMOT 50 and 50/E. Ball bearing spindle and high-quality collets for efficient insertion of tools.



MICROMOT 50 and 50/E

- For milling, drilling, grinding, polishing, brushing, cleaning, de-rusting, cutting, engraving, signing.
- For working steel, precious metals, glass, ceramics, plastics and precious stones.
- Ideal for electronic hobbyists, model-builders, mechanics, jewellers, opticians, artists, chiroprodists, dental technicians, tool and casting makers, etc.
- 12V supply allows the safe use of coolant (wet grinding and cutting).



The tens of thousands of these units in use speak for themselves: they are a joy to use!

The diameter of only 35mm makes it easy to handle. The weight of 230g, quietness and effortless drive via the balanced motor with ground spindle and collar bearing all contribute to the ergonomic design. The high-quality MICROMOT steel collets (see page 4) ensure accurate clamping of the cutters, without rattling or thumping of bits and cutters. The size of the machine dictates a 12V drive system, use of a trans-former is thus required. MICROMOT transformers of at least 1.0A are recommended.

Mill/drill unit MICROMOT 50/E

High precision: ball bearing spindle. Special balanced, low noise DC motor with high life expectancy. Variable electronic speed control with feedback effect (high engine power in the lower revolutions area). Housing of glass-fibre reinforced POLYAMIDE with soft component in the finger grip area. 20mm-collar for fitting MICROMOT accessories. Six MICROMOT collets (1.0 - 1.5 - 2.0 - 2.4 - 3.0 and 3.2mm) are supplied.

Technical data: Direct voltage 12 - 18V. Power consumption is 40W max. Stroke speed from 5,000 to 20,000rpm. Length 220mm. Weight 230g.
NO 28 510

Mill/drill unit MICROMOT 50

As MICROMOT 50/E, except that no electronic speed control is fitted. No load speed is 20,000rpm.
NO 28 500

Multiway adapter MF 5 for 12 Volt tools

With mounting holes.

Fitted with 150cm spiral cable, 4 MICROMOT sockets and one pair of standard 4mm banana sockets. The LED indicates power availability.
NO 28 994



MICROMOT extension cord (12 Volt)

Handy spiral cable with coded plug and socket to prevent polarity reversal. Length 300cm. Not illustrated.
NO 28 992



The new 50/EF with quick-action chuck. Practical for use with different shaft diameters.

Note:

The MICROMOT 50/EF can also be used with MICROMOT steel clamping devices. This is recommended when milling continuously at high lateral pressure. This makes it impossible for the shafts to become loosened after prolonged working. Using clamping devices makes true running better than using the quick-action chuck.



Footswitch FS

For free-hand precision work .

For all machines with a Euro plug (class 2 insulation) and maximum power absorption of 500W. Ideal for both portable and stationary machines. Housing of glass-fibre reinforced NYLON. The connecting cord (230V) is 250cm in length and the output cord 50cm. The transformer is connected to the FS when using 12V machines.



NO 28 700

MICROMOT 50/EF

Quick-action chuck of 0.3 – 3.2mm. Primarily advantageous when working with HSS borers of different power, complying with DIN 338.

20mm-system adaptation. For flange mounting of MICROMOT accessories.

Stable housing made of glass-fibre reinforced POLYAMIDE. With a pleasantly soft handle.

Slim, easily handled and light.

Quick-action chuck and electronic revolutions adjustment, with feedback effect (high engine power in the lower revolutions area). Special, balanced, low noise DC motor with high life expectancy. A transformer is required for operation.

We recommend MICROMOT network devices from 1.0A..

Technical data:

Direct voltage 12 – 18V. Power absorption up to 40W. 5,000 – 20,000/min. Length 220mm. Weight 230g.

NO 28 512



NEW



Model building and engraving set. Complete with MICROMOT drill/grinder 50/E, mains adapter and 34 bits and cutters of dental quality.

MICROMOT drill/grinder 50/E (as described on the left). The set includes 34 industrial respectively dental quality bits and cutters:

1 diamond grinding bit, 1 fine miller, 0.5 and 1.0mm micro-drills, 1 brass brush, 4 high-grade corundum grinding bits (cylinder, sphere, disc and cone shaped), 1 saw blade, 4 grinding wheels (2 corundum, 2 silicon carbide), 20 cutting discs and 1 arbor. The 6 MICROMOT collets ranging from 1.0 – 3.2mm (description on page 4) are also included. With mains adaptor for 220 – 240V operation (12V, 1.0A).

NO 28 515



Both sets are packed in an attractive plastic case, with 34 industrial respectively dental quality bits and cutters.

Pensander PS 13

Ideal for working on surfaces in recesses, slots and small corners. Linear (not rotating) stroke. Long-lasting special DC motor. Housing of glass-fibre reinforced POLYAMIDE. Four sanding arbors with straight shanks and four angled (all different shapes) as well as three sheets of pre-profiled self-adhesive sanding pads are included. The sheets are of grits 180, 240 and 400 with 5 of each shape per sheet.

Technical data:

Direct voltage 12 - 18V. 8,000 linear strokes/min.(2.5mm stroke length). Length 160mm. Weight 130g.

NO 28 594

Additional sandpaper for PS 13

Three sheets, each with 20 pads in different shapes. Silicon carbide, self-adhesive.

NO 28 822	180 grit
NO 28 824	240 grit
NO 28 826	400 grit



Note:

A mains adaptor of at least 1.0A at 12-18VDC is required. We recommend PROXXON power supplies NG 2(E) or NG 5(E).

Jig saw STS 12/E

Ideal for curved and intricate sawing of wood (up to 10mm), printed circuit cards (up to 3mm) and non-ferrous metal (up to 2.5mm).

Powerful special low noise DC motor with high life expectancy. Variable speed control with feedback effect (high engine power in the lower revolutions area). Housing of glass-fibre reinforced POLYAMIDE. Includes 2 blades (coarse and fine). Can now also be used in combination with a ball adaptor for working convex and concave surfaces. We recommend the use of MICROMOT mains adaptors of at least 2.0A.



NO 28 534

Technical data:

Direct voltage 12 – 18V. Maximum power absorption 100W. Stroke 6mm (adjustable from 2,000 – 5,000/min.). Length 180mm. Weight 480g.

Orbital sander SL 12/E

Shaping, rough and fine sanding of flat surfaces and sides.

Flat sanding of primers and finish-polishing. Use on 12VDC (safety voltage) and low speeds allow wet sanding! The easy to use paper clamp allows the use of any commercial sand paper (no special curves required). Sanding area 80 x 58mm has no overhanging parts, allowing sanding into corners. Housing of glass-fibre reinforced POLYAMIDE. We recommend the use of MICROMOT mains adaptors of at least 2.0A.

Technical data:

Direct voltage 12 – 18V. Maximum power absorption 100W. Stroke 1,000 – 5,000/min. Height 160mm. Weight 480g.

NO 28 542



Jig saw blades can be found on page 7.



*Power and precision also when wet grinding.
Includes keyless chuck (capacity 0.3 – 3.2mm).*



Precision drill grinder FBS 12/E

For precision drilling, milling, sanding, polishing, brushing, de-rusting, engraving, chiselling and cutting.

Includes keyless chuck (capacity 0.3 - 3.2mm). A precision ball bearing minimises spindle side play. Spindle lock button for bit changing obviates the need for spanners. Recessed spindle head for inserting MICROMOT steel collets (see page 4).

Special, balanced, low noise DC motor with high life expectancy. Variable speed control with feedback effect (high engine power in the lower revolutions area). Housing of glass fibre-reinforced POLYAMIDE.

Technical data:

Direct voltage 12 – 18V. Maximum power consumption 100W. Stroke 3,000 - 15,000rpm. Length 185mm. Weight 450g.

We recommended the use of MICROMOT transformers of at least 2.0A (see page 17).

NO 28 462



Load balancer FZ 300

Load capacity 300 – 600g, cord length up to 180cm. Housed in a sheet steel case with plastic outer cover. Weight 400g. Ideal for assembly lines and work benches.

NO 28 699



20mm MICROMOT standard collar.

Efficient forced ventilation cooling for extended periods of use without power loss.

High-quality DC motor with high torque.

Speed control with feed-back effect for speeds of 3,000 – 15,000rpm.

MICRO screwdriver MIS 1

With pre-selectable torques of 0.35 - 2.0Nm.

Small, light and easy to handle. An ideally positioned rocker switch provides on/off/reverse. A RÖHM chuck facilitates acceptance of all bit shanks of up to 6.5mm (also for standard 1/4" bits). Housing of glass fibre-reinforced POLYAMIDE. Complete with 16 inserts of chrome molybdenum steel.

Technical data:

Direct voltage 12 – 18V. Maximum power consumption 50W. Torques of 0.35 - 1.0Nm (the sixth stage bypasses the clutch and yields approx. 2Nm). Length 200mm. Weight 415g. We recommend the use of MICROMOT mains adaptors of at least 2.0A.

NO 28 690

- Slot: 0,3 x 1,5 / 0,35 x 2,0 / 0,4 x 2,5 mm
- + Philips: Siye 0 and 1
- * Torx: T 6, T 8, T 10
- ⊙ Allen key, internal: 3,0 - 3,5 - 4,0 - 4,5 - 5,0 mm
- ⊙ Allen key, external: 1,5 - 2,0 and 2,5 mm



Note:

The MICRO screwdriver MIS 1 is eminently suitable to cut threads!

Note:
The bit holder shown here (50 x 76 x 15mm – 2 pieces without bits), usable for holding rotating bits with shaft of Ø 2.35 – 3.0 and 3.2mm is available as No 28 359.



The ideal complete starter kit including the tried and tested engraving tool GG 12!

Complete engraving kit with 'trial glass'

Engraving kit GG12 with special balanced, powerful, quiet and long-lasting DC motor.

Housing of glass fibre-reinforced POLYAMIDE. Plus mains adaptor, trial glass, motifs and instruction booklet as well as all necessary bits: 1.0 and 1.8mm diamond grinding bits with spherical head for engraving and line work, silicon carbide grinding bits in both conical and bullet shape for frosting glass as well as one corundum grinding bit in ball and cylinder shape for grinding and engraving. Every component is securely packed in an attractive plastic case.

Technical data for GG 12:

Direct voltage 12 – 18V. Length 145mm. Weight 50g.

NO 28 635

Engraving tool GG 12, available individually

Includes 1 diamond bit (spherical head, 1.8mm).

NO 28 592



12 VOLT



Every piece has its own place in the attractive, extremely stable plastic storage case.

Flexishaft MICROMOT 110/P with triple ball bearings, up to 25,000rpm.



Aluminium precision handheld tool with two steel ball bearings.

Ball bearing in the drive shaft end. Highly flexible core (no heating up when bent tightly).

For holding steel MICROMOT collets. Length 100cm.

The flexishaft comes with 6 steel MICROMOT collets (1.0 – 1.5 – 2.0 – 2.4 – 3.0 and 3.2mm).

NO 28 620

The UHV universal holder shown is described on page 19.



MICROMOT mains adaptors: safe and efficient power sources for MICROMOT low-voltage tools.

MICROMOT mains adaptor NG 2/E



Note:

Power consumption of portable machine tools is measured according to the internationally accepted ICE-745-1 specification. The current drawn is measured, not the power consumption with a hot motor just before stalling. In practice, this condition seldom appears, if ever. All PROXXON mains adaptors are suitably dimensioned for the recommended purposes.

The adaptors do not include the illustrated drills/grinders.

NORYL casing (heat resistant – a necessity for transformer enclosures). Polarised socket for MICROMOT plug. Red LED indicates readiness for use. PTC (Positive temperature coefficient) element prevents overload (and plugged in tool will not automatically restart). After cooling down, the mains plug should be disconnected briefly to reset the adaptor. With holes for storing bits. Foldable tool rest provides a secure place for keeping the MICROMOT tools at the ready. Variable speed control with feedback effect for adjusting bit speed to suit the job, as well as providing high torque at low speeds.

Technical data:

220 – 240V. Supplies 2.0A at 16 Volt open circuit and 12 Volt under load. Weight 1,000g. Class 2 insulation.

NO 28 707

MICROMOT mains adaptor NG 2/S

Without electronic speed control, otherwise exactly as mains adaptor NG 2/E.

NO 28 706

MICROMOT mains adaptor NG 5/E

With superior capacity of 5A. In compact NORYL casing (heat resistant – recommended for transformers).

Variable speed control with feedback effect for optimum tool speed and high torque at low speeds. Three polarised sockets for MICROMOT machines. A pair of sockets for standard banana plugs (4mm diameter) is also supplied. Master switch for turning off the transformer without needing to unplug. Red LED indicates 'ready'. PTC (Positive temperature coefficient) protection against overload (plugged in machine will not restart automatically. After cooling down, the mains plug should briefly be unplugged to reset the adaptor). With storage holes for tools with 2.35mm and 3mm shafts. Foldable tool rest for the MICROMOT tool.

Technical data:

220 – 240V. Supplies 5.0A at 16 Volt open circuit and 12 Volt under load. Weight 2,000g. Class 2 insulation.

NO 28 704



MICRO compound table KT 70

Made of solid aluminium with surface treatment and fitted with adjustable dovetail gibs and three T-slots of the MICROMOT standard (12 x 6 x 5mm). Adjustable ruler eases workpiece positioning. Both handwheels have zero-resettable dials with graduations indicating 1 revolution = 1.0mm and 1 division = 0.05mm. The clamps and securing bolts for the MB 140/S and TBM 4 are included.

Other technical data:

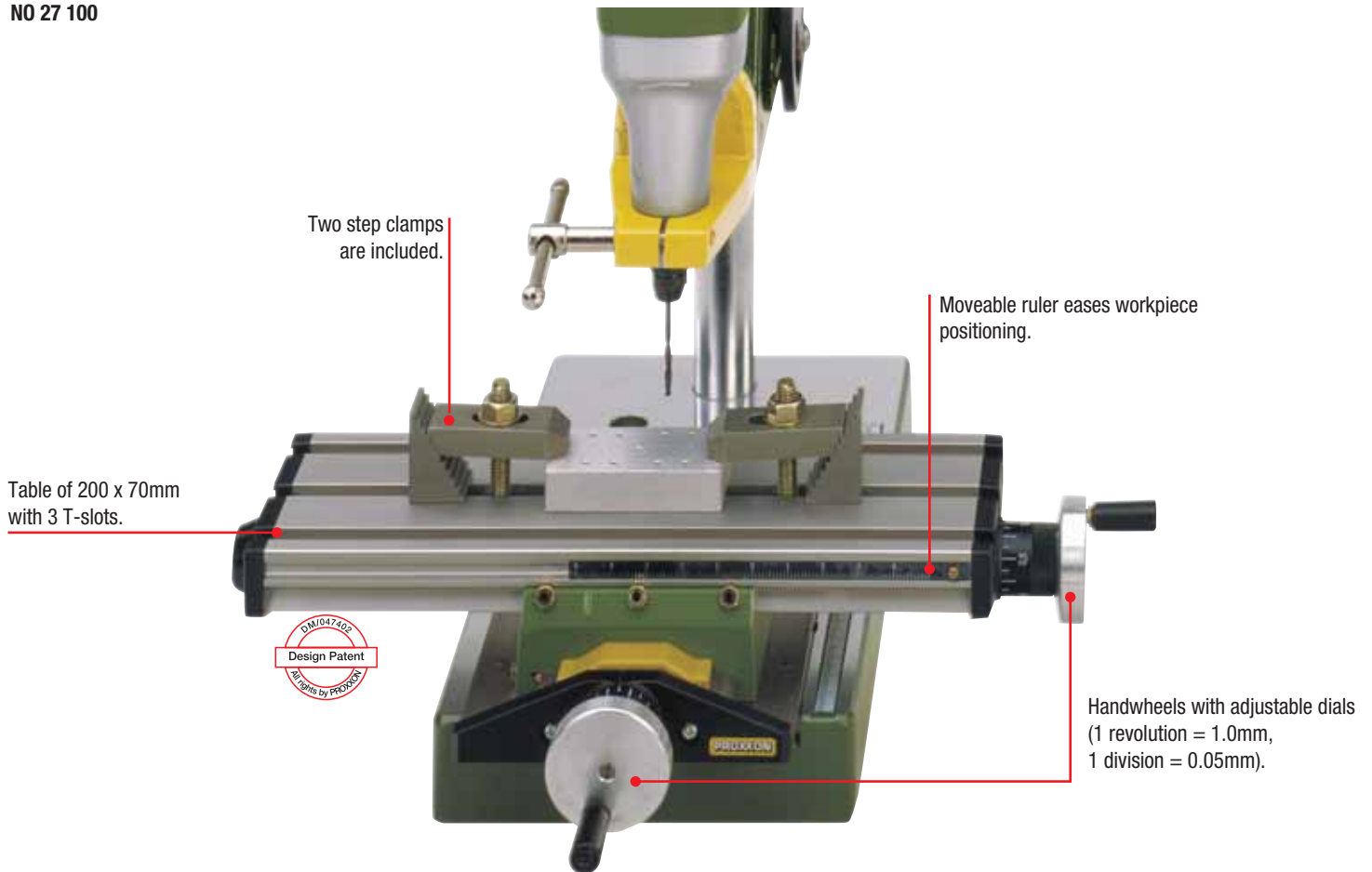
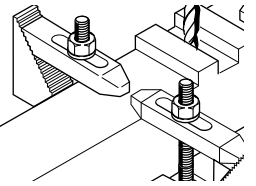
Table size 200 x 70mm. X travel 134mm and Y travel 46mm, maximum height 43mm.

NO 27 100

Step clamps made of steel

The step clamps set is supplied with the KT 70, but can also be ordered separately. Set consists of 2 stepped blocks and clamps, T-slot nuts of the MICROMOT standard (11.5 x 11 x 4mm), bolts. This set also fits the mill/lathe systems PD 230/E and PD 400.

NO 24 256



Precision vise FMZ with integrated clamp

Rotates in all directions. Made of die-cast zinc. Easily clamps to workbenches and tables of up to 60mm. Alternatively, use 2 standard screws to secure to the work surface. Ball and socket: rotates in all directions (even downwards). 75mm jaws with protective covers (for delicate workpieces). Maximum clamping width 70mm and weight 1.6kg.

NO 28 608

Precision vise FMS 75

As detailed above, but without clamp. A strong suction cup facilitates instantaneous fixing to any smooth, flat surface.

NO 28 602



MICROMOT drill stand MB 140/S

The 120 x 220mm table is milled and fitted with a fence and scale. The solid column (280 x 20mm) is made of steel. The headstock is of die-cast aluminium, offering a throat capacity of 140mm and 30mm travel. A chromed feed lever operates via drive disc and ball bearing system, offering a sensitive feed set-up.



Slotted guides and fits and pinch screws allow simple height adjustment as well as the fixing of the mill/drill units (20mm bore fitting). The mill/drill collar, with scale, tilts through 90° in both directions.

A depth stop as well as drilled, tapped holes for securing the MICRO compound table KT 70 and holes to fix the drill stand itself are also provided.

NO 28 606

Note:

Our technicians prefer the use of die-cast aluminium as it is clean and stable. All fittings and feeds are machined on our ultra-modern CNC machines, i.e. milling, turning, etc. Pure precision!

Machine vise MS 4

Die-cast zinc. With three machined sides. The slot fits the adjustable fence of the drill stand MB 140/S and bench drill TBM 220. Horizontal and vertical V-slots in jaw. Jaw width 50mm and height 10mm. Maximum clamping width 34mm.

NO 28 132



Universal holder UHZ

Rotates in all directions. Made of die-cast zinc. Easily clamps to workbenches and tables of up to 60mm. Alternatively, use 2 standard screws to secure to the work surface. Otherwise exactly as universal holder UHV.

NO 28 610

Universal holder UHV

With suction cap for rapid attachment on flat and smooth surfaces. The ball joint may be swivelled in all directions. The 20mm bore accepts all MICROMOT drills and grinders, e.g. FBS 240/E, IB/E, LB/E, MICROMOT 50, 50/E and 50/EF, FBS 12/E.

NO 28 603



**MICRO-compressor MK 240,
complete with airbrush AB 100**

Note:
The airbrush AB 100 is exclusively for use with acrylics.



MICRO-compressor MK 240

The set is light, small and quiet. With adaptor and 200cm hose to connect to the AB 100, as well as 2 paint containers.

The single action airbrush AB 100 is ideal for the beginner. Plastic hand piece with adjustable nozzle.

Technical data (compressor):

220 – 240V. 50/60Hz. 85W. Compressor capacity 12 l/minute, maximum pressure of 2.0bar. Dimensions: 140 x 120 x 95mm. Weight 1,300g. For airbrush purposes only!

NO 27 120

MICROFLAME burner MFB/E

Used for soldering, de-soldering, brazing, heating of workpieces, tinning. Individually controllable gas and air supply. Super fine flame shape with temperature attaining 1,300 °C. Ideal for precision work. Fitted with an electronic piezo crystal lighter.



The tank contents of 50ml is sufficient for approximately 120 minutes operation with normal flame. Rechargeable with standard butane cartridges used for lighters.

NO 28 146

Soldering iron EL 12

Extremely short heating time of approx. 10 sec. PTC (positive temperature coefficient) technology ensures exact tip temperature of 310 °C. Ideal for working on electronic components. Prevents damage to sensitive electronic components such as transistors and ICs (with temperatures of over 350 °C). Lockable on/off switch. Light for illuminating working area. Operates off 12 - 14V DC. Complete with spiral cable and standard MICROMOT jack plug (from 1.0A).

NO 28 140



Soldering tip

EL 12. Easy to replace by loosening the clamping screw.

NO 28 141



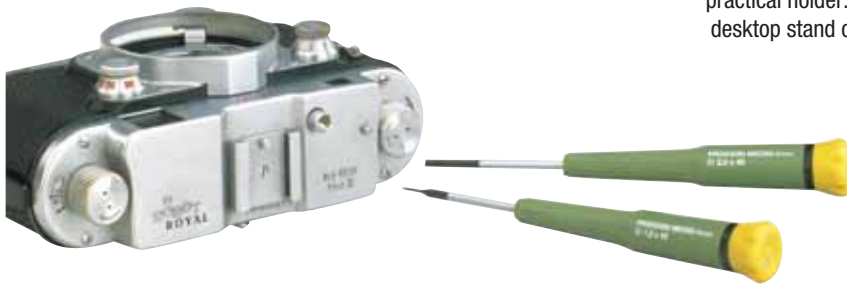
Precision screwdriver for electronic engineers, camera builders, watchmakers, jewellers, precision mechanics and model makers.

MICRO screwdrivers

Shafts of high alloy nickel-chrome-molybdenum (SAE 8660) for maximum hardness and toughness. Chromed with brinelled tip. The ergonomically formed plastic handles are oil and impact resistant. The revolving top and finger mould improve ease of use.

- ⊖ Slot: 1,0 x 40, 2,0 x 40, 3,0 x 40
- ⊕ Philips: PH 0-3 x 40, PH 0 x 40, PH 1-2 x 40
- ⊛ Torx: T 5 x 40, T 6 x 40, T 8 x 40, T 10 x 40, T 15 x 40
- ⊙ Allan key: 1,5 x 40, 2,0 x 40, 2,5 x 40, 3,0 x 40

NO 28 148 15 pieces in a stand



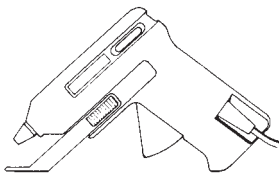
Fixed place for each item in the practical holder. May be used as desktop stand or fixed to a wall.



Note:

It is important to use the MICRO screwdrivers with care and feel. The brute force associated with larger screwdrivers is best left for other tools. The revolving top and finger mould improve ease of use.

MICROMOT glue gun HKP 220



Quick and reliable gluing of metal, wood, plastic (including Plexiglass), glass, ceramics, stoneware, cardboard, leather, polystyrene foams and textiles.

The adhesive sets in about 2 minutes, allowing positional corrections (which is impossible with instant glues).

The 7mm glue sticks are perfect for delicate work such as model building, toy and jewellery making, dried flower arrangements, etc. Sensitive mechanical feed ensures correct glue quantity delivery. Integral stand positions gun on worktop when not in use. Short heating time.

Technical data:

220 – 240V. PTC controlled element for exact temperature of 200 °C. Four glue sticks 7 x 100mm and 3 interchangeable metal nozzles are included in the set.

NO 28 192



Including 3 interchangeable metal nozzles.

Replacement glue sticks for HKP 220

For metal, wood, plastic, ceramics, cardboard, leather, polystyrene foams and textiles. Ø 7mm. Length 100mm. Colourless.

NO 28 194 12 pieces

Bits and cutters for MICROMOT drills and mills of industrial

MICROMOT keyless chuck and collets



NO 28 941

Three jaw keyless chuck

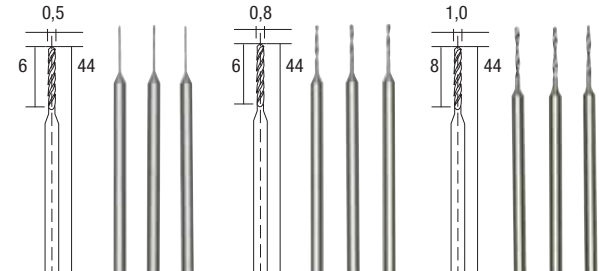
Used on all MICROMOT machines, excluding GG 12, IB/E, LB/E and COLT 2. Capacity is 0.3 – 3.2mm.



NO 28 940

MICROMOT steel collets Fits all MICROMOT handheld machines (excluding GG 12 and COLT 2). One of each 1.0 - 1.5 - 2.0 - 2.4 - 3.0 and 3.2mm, closure nut and holder are included. See also the note on page 4.

HSS drill bits



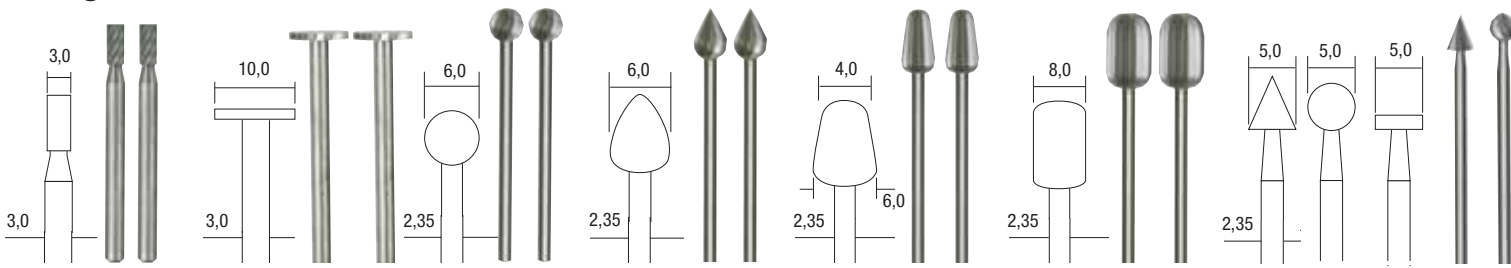
NO 28 864

NO 28 852

NO 28 854

HSS drill bits HSS drill bits. Selected steel quality. Purpose-made one-piece blank. High hardness for optimum life expectancy and Work speeds: soft materials approx. 8,000rpm, hard materials

Milling bits



NO 28 722

NO 28 727

NO 28 725

NO 28 724

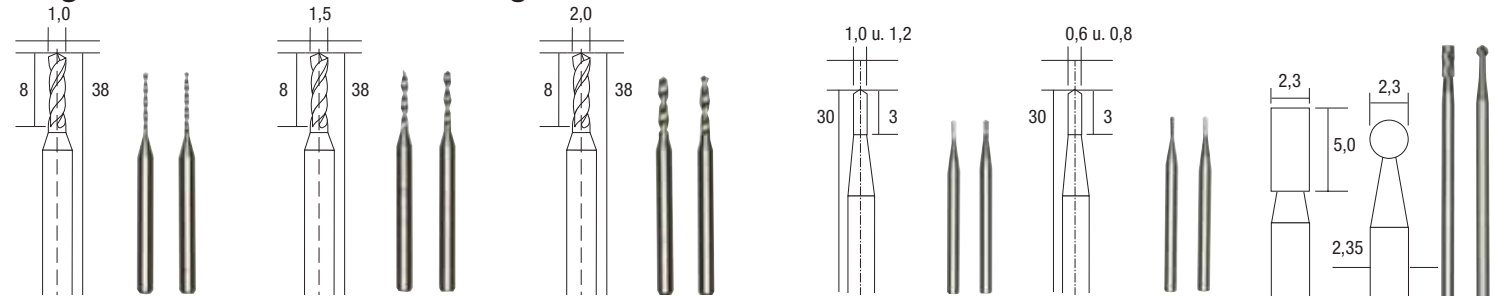
NO 28 723

NO 28 726

NO 28 720

Wolfram vanadium steel milling bits Selected wolfram vanadium steel. Purpose-made stable construction with head and shaft out of a single blank. The precise flutes and optimal concentricity For use on hard and soft woods, non-ferrous and precious metals, as well as plastics and plaster of Paris. All shafts \varnothing 2.35 or 3.0mm. Ideal for milling, routing, shaping, profiling and slotting. use of MICROMOT steel collets as described above.

Tungsten carbide drills and milling bits



NO 28 324

NO 28 326

NO 28 328

NO 28 320

NO 28 321

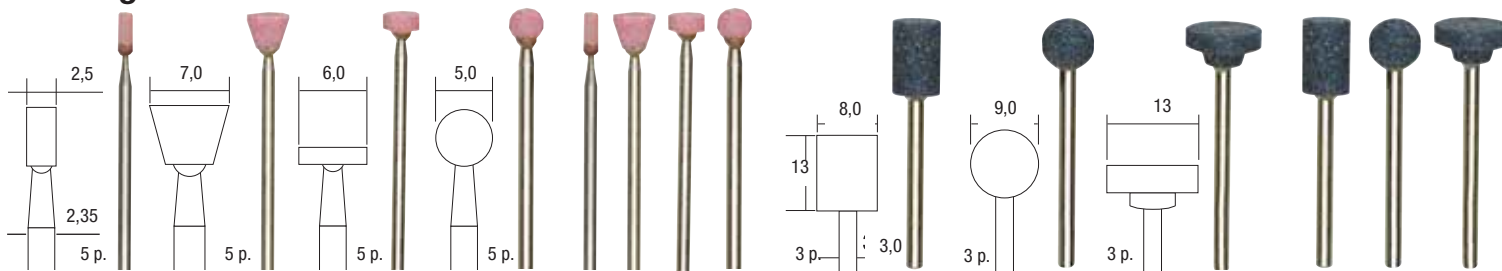
NO 28 750

Tungsten carbide drills Made of wear-resistant tungsten carbide. For drilling glass, semiprecious stones, porcelain, ceramics, marble and other hard stones. The hard stones are subdivided according to the degree of hardness from 1 - 10. Tungsten carbide can be used up to hardness degree 6, Drilling hard stones with a hardness degree of more than 6 calls for the use of diamond tools. Shaft \varnothing 3.0mm. With ideal cutting angle of 6° .

Tungsten carbide milling drills (spear drills) For drilling, milling and cutting fibre glass or PERTINAX circuit boards. Also for drilling pearls and similar. Shaft \varnothing 2.35mm.

Tungsten carbide millers Made of wear-resistant avoiding accidents. milling of PC cards.

Grinding bits



NO 28 774

NO 28 778

NO 28 776

NO 28 772

NO 28 770

NO 28 781

NO 28 782

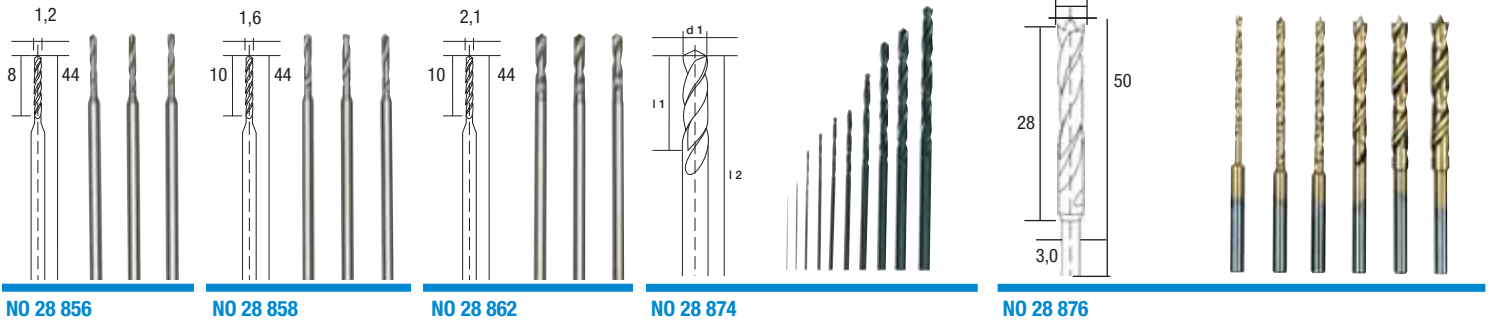
NO 28 783

NO 28 780

High quality corundum grinding bits. Bits and sets of fine, high quality materials of consistent hardness. Various shapes for the widest possible range of applications. For grinding and chiselling hard materials such as cast iron, cast steel, malleable cast iron as well as hard metal alloys and refined steel. Accurately dimensioned shafts of \varnothing 2.35 or 3.0mm ensure maximum concentricity. **Grinding rule:** soft materials = hard grinding bits; hard materials = soft grinding bits!

and dental quality.

Note:
All measures are in mm.

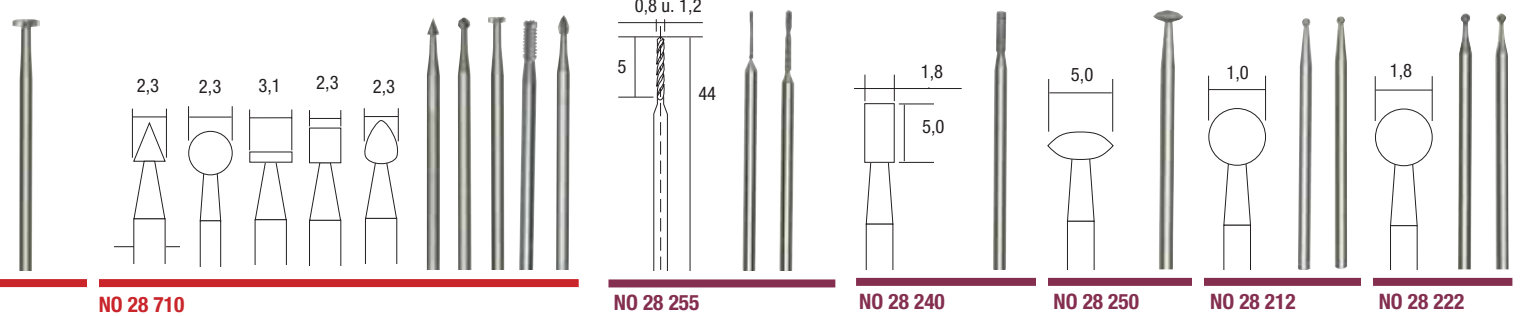


stable construction with high concentricity. Shaft and bit are manufactured from a elasticity. For drilling metal, non-ferrous metals, plastic, PC cards and wood. approx. 3,000rpm. Ø shanks 2.35mm.

HSS twist drill set to DIN 338 One each of 0.3-0. -0.8-1.0-1.2-1.5-2.0-2.5-3.0-3.2mm diameter. For drilling non-ferrous metals, steel, high-quality steel. 10 pieces.

HSS twist drill set with centring pin Ø 1.5-2.0-2.5-3.0 - 3.5 - 4.0mm. For precision tapping of wood and plastic. The titanium coating reduces friction and increases life expectancy. Ø shanks 0.3mm. 6 pieces.

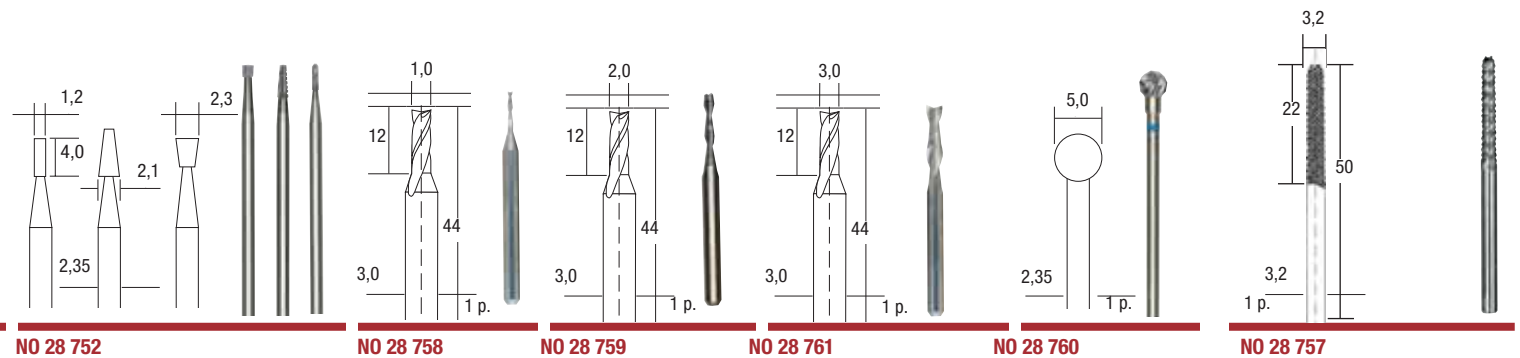
Diamond tools



ensure best life expectancy. Ideal for free-hand precision work. For clean and powerful fitting of the milling bits we recommend the

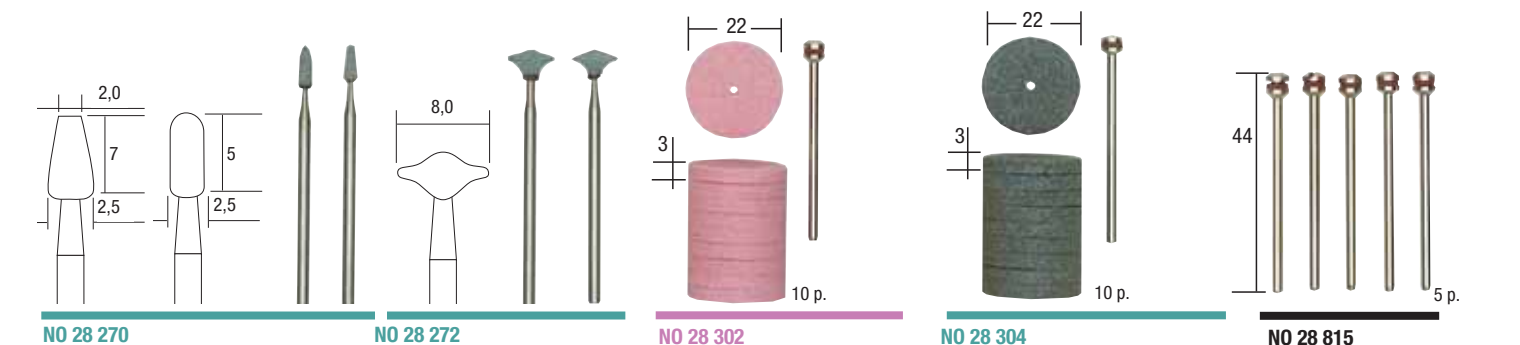
Diamond twist drills For drilling holes in (semi) precious stones, etc. Shaft Ø 2.35mm.

Diamond grinding bits With consistently even coating of diamond dust. Bodies and shafts made from stainless steel. Used for grinding, engraving and chiselling steel (even chrome-cobalt alloy), glass, ceramics, porcelain and plastics. All shafts Ø 2.35mm.



highly compressed fine-granular tungsten. Used for vibration-free milling of high accuracy dimensions. It is advisable to secure workpieces well. For milling steel, cast steel, non-ferrous metals, plastics and extremely hard materials. May be used for technical work, for engraving and Shafts Ø 3.0 or 2.35mm. Here also we recommend the use of MICROMOT steel collets.

Rasp cutter For cutting and milling tiles, stone-ware, wood and plastics. Spare cutter for FEX.



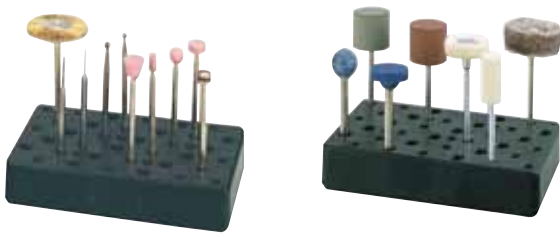
Silicon carbide grinding bits Fine particles of consistent hardness for engraving and frosting of glass, ceramics and stellites. Also for grinding tungsten carbide, chilled cast iron and other hard steel alloys. Shafts Ø 2.35mm.

High quality corundum and silicon carbide grinding wheel Wheels for free-hand and stationary grinding, sharpening, de-burring and smoothing of various metals and materials.

Spare arbors Shaft 2.35 x 44mm.

Selected cutting, sanding and polishing bits for professional use

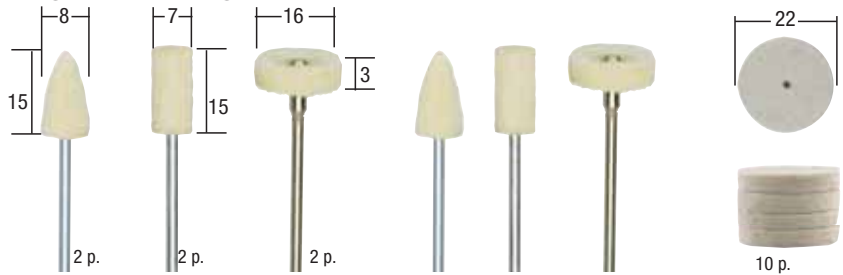
Holders for storage of bits and cutters



NO 28 359

Small holders Two tablets 50 x 76 x 15mm for clean storage of bits and cutters such as drills, grinding bits, brushes and other tools with shafts of \varnothing 2.35, 3.0 and 3.2mm (the last mentioned shaft corresponds to a 1.8" shaft). Insert tools not included.

High-polishing



NO 28 801

NO 28 802

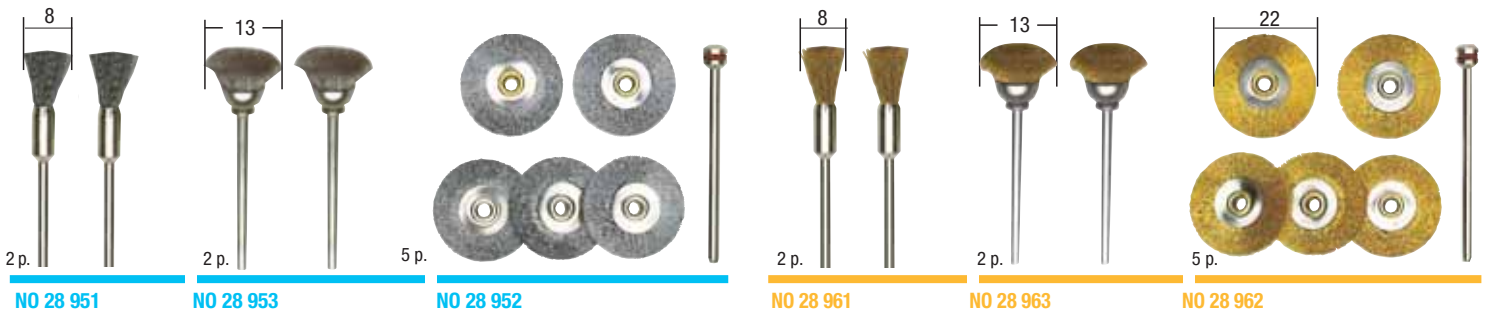
NO 28 803

NO 28 800

NO 28 798

Felt polishers and felt discs Various forms and profiles for multifunctional use. For pre- or high-polishing and aluminium when using the polishing paste. Also suitable for mould construction and tool 2.35mm. When polishing always work at a low rotational speed to prevent the burning of materials and or slightly warm up hard polishing paste containing oil.

Cleaning, polishing



NO 28 951

NO 28 953

NO 28 952

NO 28 961

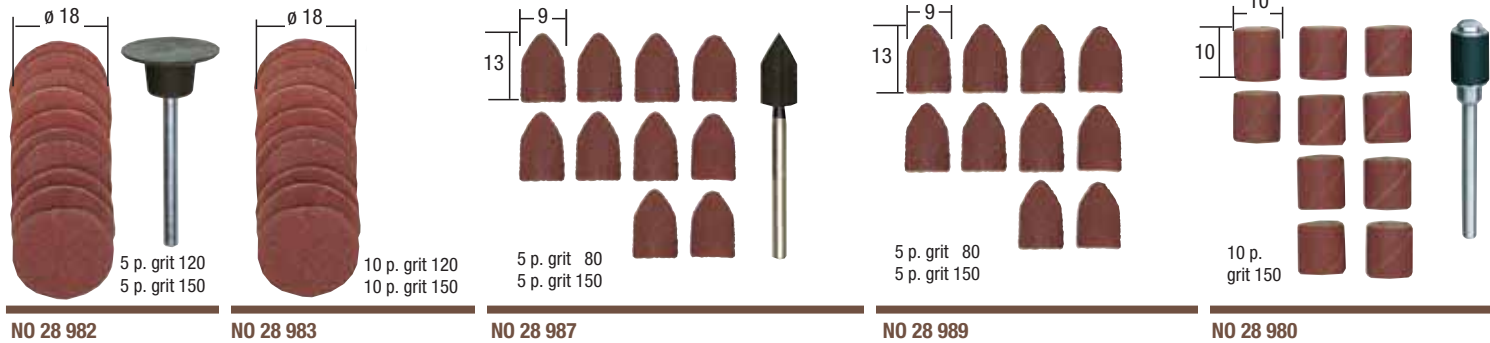
NO 28 963

NO 28 962

Steel brushes, cups and wheels High quality components for best operation. For cleaning, removing rust, sanding, frosting, roughening, rounding-off, etc. of metal, cast iron, plastic, stone and wood. Shaft of \varnothing 2.35mm.

Brass brushes, cups and wheels Ideal for working on brass, brass alloys, copper, precious metals, semiprecious stones, plastic and wood. For cleaning of electronic components and circuit boards. Shaft of \varnothing 2.35mm.

Sanding



NO 28 982

NO 28 983

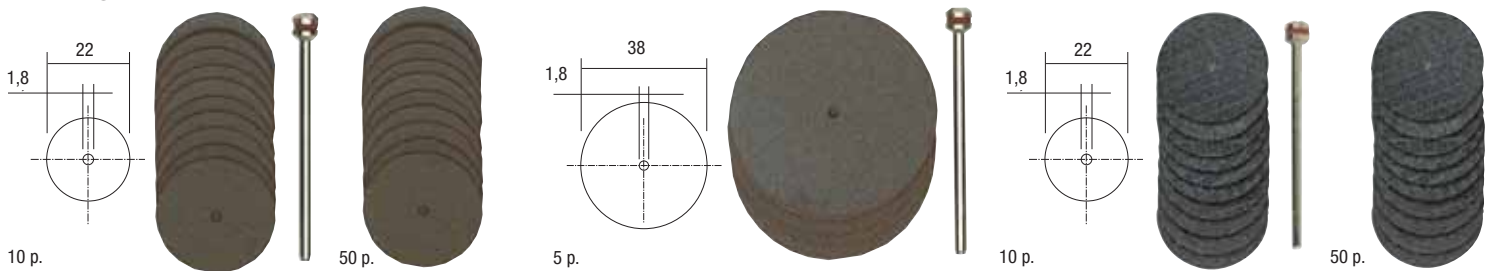
NO 28 987

NO 28 989

NO 28 980

Sanding discs, caps and bands made of standard corundum. The compounds are of tough consistency and different grits for different sanding stages. Shafts of \varnothing 3.0mm. Extremely sanding. Steel high, wood medium and plastic low rotational speed. For sanding, smoothing and polishing malleable cast iron, grey cast iron, high quality steel, non-ferrous metals, wood used,

Cutting discs



NO 28 810

NO 28 812

NO 28 820

NO 28 808

NO 28 809

Corundum cutting discs

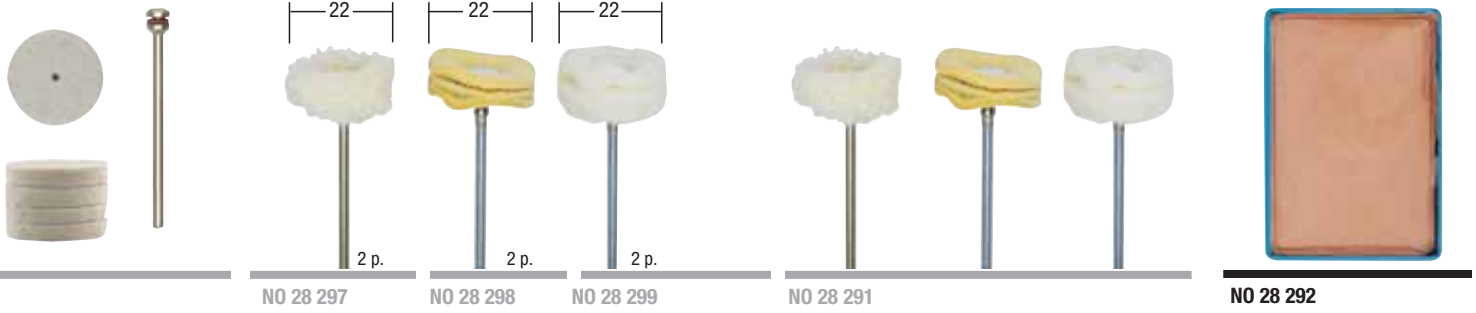
Discs made of a special compound of diameter 22 or 38 x 0.7mm. Used to part alloys and metals, stainless steels and non-ferrous metals. Can also be used for cutting wood and plastic. Shaft of \varnothing 2.35mm.

Aluminium oxide cutting discs with reinforcement

The cutting discs are available in \varnothing 22 x 0.8mm and \varnothing 38 x 1.0mm. stock. Will cut alloyed, standard and stainless steels, non-ferrous plastic. Arbor shaft of \varnothing 2.35mm.

and longest life expectancy!

Note:
All measures are in mm.



NO 28 297

NO 28 298

NO 28 299

NO 28 291

NO 28 292

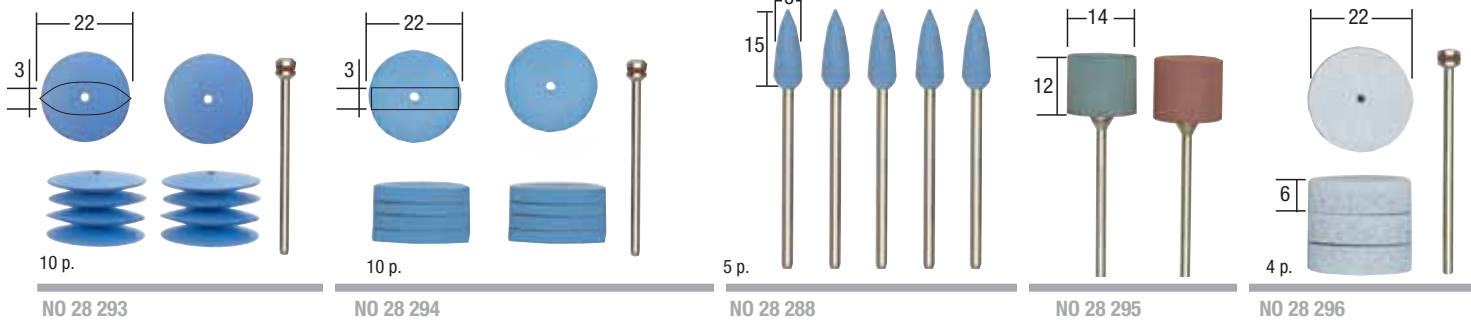
metal, gold, silver, brass manufacture. Shafts of \varnothing tools. Also always soften

Cotton, leather and felt polishers

For high gloss finishes on metal, gold, silver, non-ferrous metals, brass, aluminium, ceramics and porcelain when using polishing paste. Can also be used on lacquered wood and plastics. Shafts of \varnothing 2.35mm. High-gloss French polish needs several operating cycles at medium rotational speed.

Polishing paste
Essential for polishing metal and plastic.

Fine polishing



NO 28 293

NO 28 294

NO 28 288

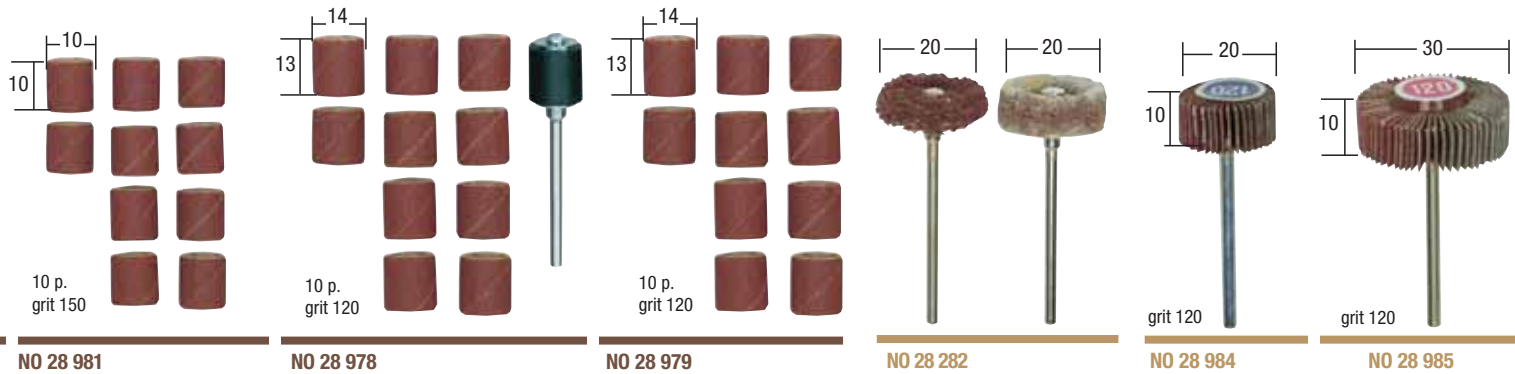
NO 28 295

NO 28 296

Flexible silicon discs, wheels and bullets

Used for surface smoothing and polishing of precious metals, non-ferrous metals, high-grade metals, glass, porcelain, wood, rubber and plastic. The bullets are very suitable for working tough-to-reach insides. Shafts of \varnothing 2.35mm.

Flexible polishing pad set Especially suitable for working gold, platinum, silver as well as for tool making and castings. Shafts of \varnothing 2.35mm.



NO 28 981

NO 28 978

NO 28 979

NO 28 282

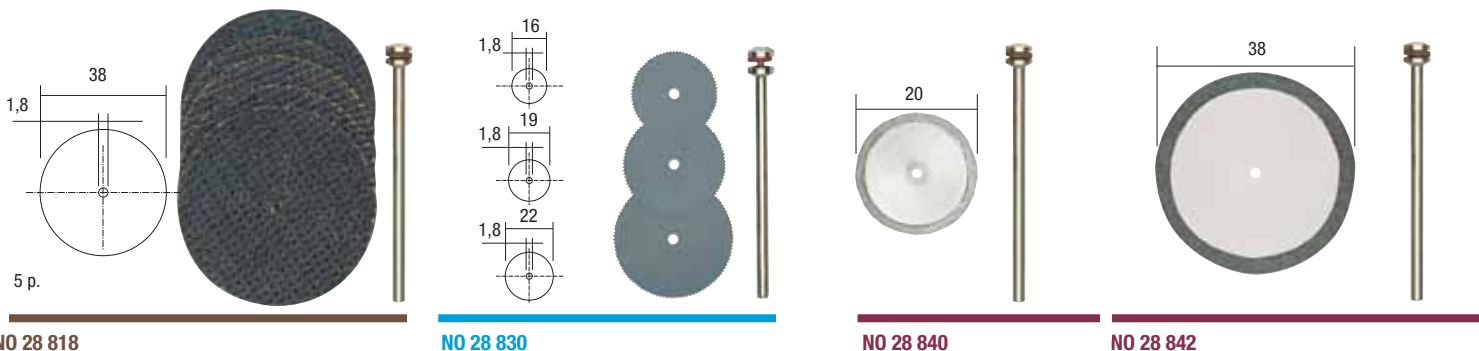
NO 28 984

NO 28 985

strong. Different forms for different areas of application. Must be adjusted to the material that needs and plastic. Also for sanding edges. The rotational speed at which the sanding discs and caps are

Nylon fleece brushes Used for cleaning, frosting and sanding steel, high quality steel, non-ferrous metals, etc. Shaft of \varnothing 2.35mm.

Flapwheels. These flapwheels are elastic and take on the shape of the workpiece. Ideal for sanding in inaccessible spots. Shaft of \varnothing 3.0mm.



NO 28 818

NO 28 830

NO 28 840

NO 28 842

Cutting blades made of spring steel
0.1mm thick. For plastic, wood and non-ferrous metals. Shaft of \varnothing 2.35mm.

Diamond cutting disc
Only 0.6mm thick. For cutting and sanding of porcelain, ceramics, glass fibre boards, plastic and non-ferrous metals. Shaft of \varnothing 2.35mm.

Nearly unbreakable, making them usable to remove metals and even wood and

Selected sets for various applications.

Glass working



Four piece set consisting of:

2 diamond grinding bits and 2 silicon carbide grinding bits. For engraving, grinding and frosting glass. Diamond bit 1: ball Ø 1.0mm, diamond bit 2: ball Ø 1.8mm. Silicon carbide bit cone 3/2 x 5mm and cylinder 2/2.5 x 7mm. All shafts of Ø 2.35mm. **NO 28 920**

Jewellery set



Seven piece set for working jewellery

For jewellers and goldsmiths. Contents: 3 ball milling bits with hole (for milling fittings for pearls etc.) in Ø sizes 3, 4 and 5mm. 1 double cone miller for milling bases for stones with 1.4mm diameter. 1.0 and 1.4mm millers with concave heads (for rounding off wires etc.). 1.0mm hardened spear drill made of tungsten carbide for pearls and stones included. All shafts Ø 2.35mm. **NO 28 911**

Electronic technician set



Nine piece set

For drilling, milling and cutting of circuit boards. Contents: 3 micro drills in Ø sizes 0.5, 0.8 and 1.0mm, 2 milling bits ball shape Ø sizes 0.5 and 2.3mm, 3 cutting discs Ø 22mm with arbor. All shafts of Ø 2.35mm. **NO 28 930**

Modeller's set



13 piece set for model makers

For cutting, milling, polishing and drilling. Contents: 1 fine milling bit each ball shape and cylinder 2.3mm, 1 corundum grinding bit each ball and cone shape 5.0mm. 1 micro drill each 1.0 and 2.3mm. 5 cutting discs Ø 22mm, 1 saw blade Ø 22mm and 1 arbor Ø 2.35mm. **NO 28 910**

Complete polishing set



Complete 10 piece polishing set

For polishing metal, glass, high quality metal, porcelain and plastic. Consists of 3 felt polishing bits (cylinder, cone, wheel), 3 silicon polishing bits (bullet, cylinder and wheel), Cotton wool polishing wheel; chamois buffing wheel and polishing paste (incl. of 2.35mm arbor). **NO 28 285**

New for woodworking: rasp cutter with wolfram carbide burrs.

Great for sculpting, cleaning and smoothening of wood and fibre glass.

For precision working on and refining of flutes, grooves and furrows. Extremely sharp and very easy to handle: the material can be worked without physical effort no matter whether it is cut with or against the grain. High stability and easy to clean with a Bunsen burner. Also for use on rubber, foam and silicone. RPM: 5,000 – 20,000. Shaft Ø 3.2mm. Do not use on metal!!!



Ball nose cylinder 7.5 x 12mm

NO 29 060

Flame 8 x 12mm

NO 29 062

Taper 4 x 19mm

NO 29 064

Note:

Ideal for wood cutters: rasp disc made of the same material in combination with the MICROMOT long neck angle grinder LWS. See page 6.

Note:

The depicted rotary tool is not included.



Tile cutting attachment FEX

Ideal for small cuts in wall tiles, wood and dry wall.

drill/grinder FBS 240/E, the MICROMOT 50, 50/E and 50/EF or the professional drill/grinder IB/E. Made of glass-fibre reinforced POLYAMIDE. With depth adjustment and scale. With the 20mm standard fit, it takes only seconds to screw the FEX to the precision.

NO 28 756 Complete with 3.2mm rasp cutter of tungsten carbide

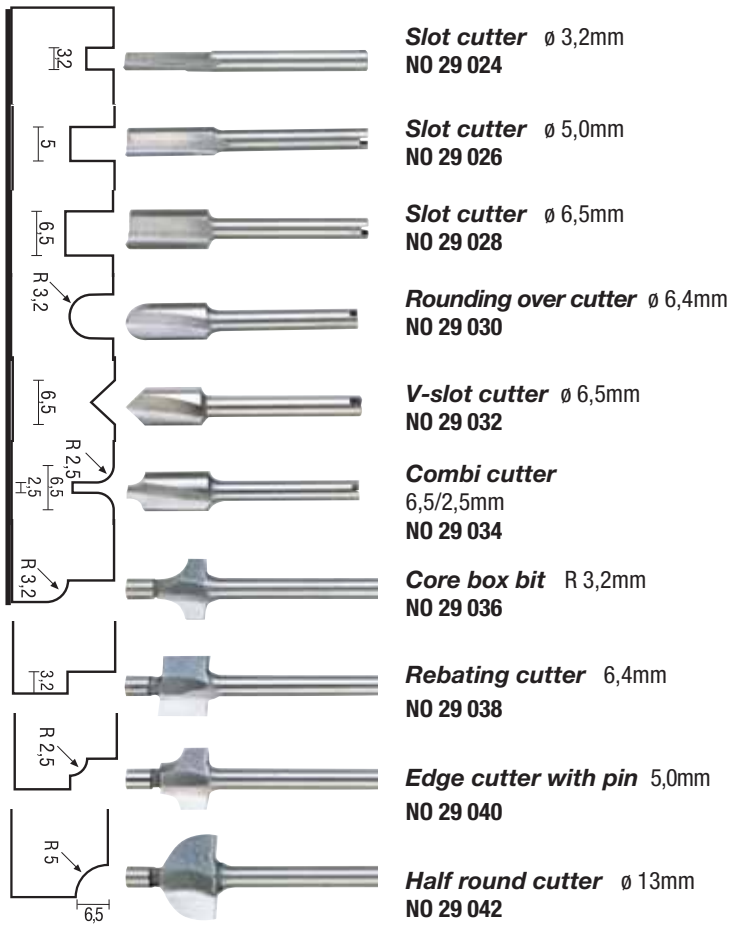
Spare cutter for tile cutting attachment FEX

Made of tungsten carbide. With 3,2mm shaft. Ideal for wall tiles.

NO 28 757



Tungsten carbide wood router cutters, inverse relief ground for cleaner cuts



Used in the manufacture of picture frames, for slotting, cutting radii and other profiles. Shaft \varnothing 3.2mm.

10 piece wood router cutter set

A set with one each of the described cutters neatly arranged in a wooden box.

NO 29 020

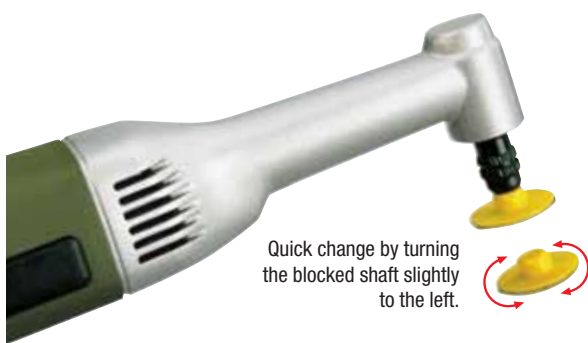


Attention!

These router cutters should only be used in machines or accessories with safety mechanism such as the MICRO router MOF (page 11) or the MICRO shaper MT 300 (page 37).

MICROMOT quick change grinding system

The discs with different grit are easy to change and can be used several times.



Spare grinding discs (\varnothing 25mm)



Aluminium oxide for steel

NO 28 786 grit 40 5 pieces
NO 28 787 grit 80 5 pieces
NO 28 788 grit 180 5 pieces



Zirconium-corundum for high-alloy steel and high-quality steel

NO 28 789 grit 50 5 pieces
NO 28 790 grit 80 5 pieces
NO 28 791 grit 120 5 pieces



Grinding fleece for cleaning and finishing

NO 28 792 coarse 5 pieces
NO 28 793 fine 5 pieces
NO 28 794 very fine 5 pieces



With adaptor (that fits to the angle milling/drilling unit WB 220/E, the professional drill/grinder IB/E, the long neck straight drill/grinder LB/E, the precision drill/grinder FBS 240/E and FBS 12/E and to the mill/drill units MM50, MM 50/E and MM 50/EF), three aluminium oxide discs for working steel (grit 40, 80 and 180), three zirconium-corundum discs for working high-quality and high-alloy steel (grit 50, 80 and 120), three grinding fleeces for cleaning, finishing and removing of annealing colours (coarse, fine, very fine).

NO 28 785

Complete set

Angle adapter WS 90

Facilitates working in otherwise difficult areas.

May also be used for parting metal profiles such as model railroad tracks and as angle grinder. With 20mm MICROMOT collar and extra collets and adaptor (that fits all MICROMOT tools with 20mm spindle neck). Transmission ratio 1:1. Four ball bearing drive. Housing of glass-fibre reinforced POLYAMIDE.
NO 28 405



MICRO woodturning lathe DB 250

Turning in miniature is a pleasing hobby. One can make glasses, cups, saucers, vases and columns for a doll house. In model trains, one can make lighting

The electronic speed control assists in the lower range in a 'semi-automated' painting process.



masts, windows, tanks. Limbs for marionettes and hundreds of classical miniature turning tasks may be carried out with ease.

Technical data:

Centre distance of 250mm, 40mm swing. 25mm swing over support. Motor 220 – 240V, 150W, 50/60Hz. Variable speed control covering between 1,000 and 5,000rpm. Headstock spindle bore of 10mm. Tail-stock travel 20mm.

Includes 6 collets (2 – 3 – 4 – 6 – 8 – 10mm), drive centre, live centre and face plate.

NO 27 020



Work pieces are secured by means of collets (1 each of 2 – 3 – 4 – 6 – 8 and 10mm are included).

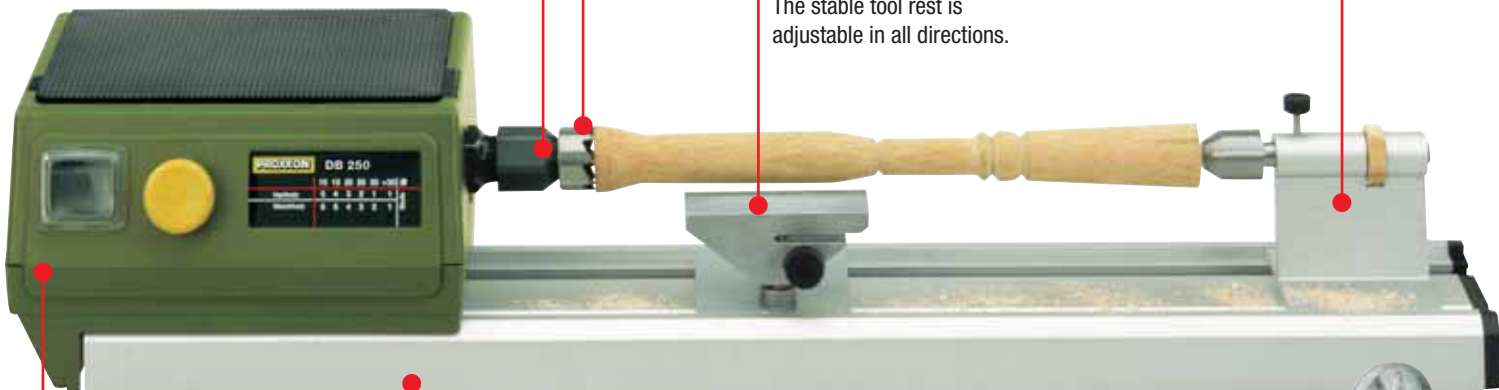


Ball bearing spindle is bored through at 10mm. For series production of small parts.

Square carrier with back centre and 10mm shaft.

Tailstock with quill travel.

The stable tool rest is adjustable in all directions.



Powerful drive motor with speed control between 1,000 and 5,000rpm.

The bed is made from stable, thick-walled aluminium profile.

A face plate for turning larger items is included.



Five piece HSS chisel set

Highest quality set with the most frequently used chisels: tube chisel, flat chisel, pointed chisel, anvil chisel and finishing chisel. Neatly packed in a wooden box.

NO 27 023



Drill chuck with sliding sleeve for the tailstock of the DB 250

Clamps up to 5.0mm. Is inserted on the spot of the rotating back centre. The feed movement results from sliding the complete tailstock.

NO 27 028



Independent four jaw chuck for the DB 250

With individually adjustable jaws. Used to clamp asymmetrical pieces such as rectangles. The reversible jaws clamp from 1.5 – 35mm (inside) and from 14 - 67mm (outside). The DB 250 headstock spindle of thread M16 x 1 screws directly into the chuck.

NO 27 024



Three jaw chuck for the lathe DB 250

Used for concentric clamping. Made from die-cast zinc and offering 1.5 to 32mm and 12 to 65mm when reversing the jaws. The chuck has a M16 x 1 thread for fitting directly to the DB 250 headstock spindle.

NO 27 026

