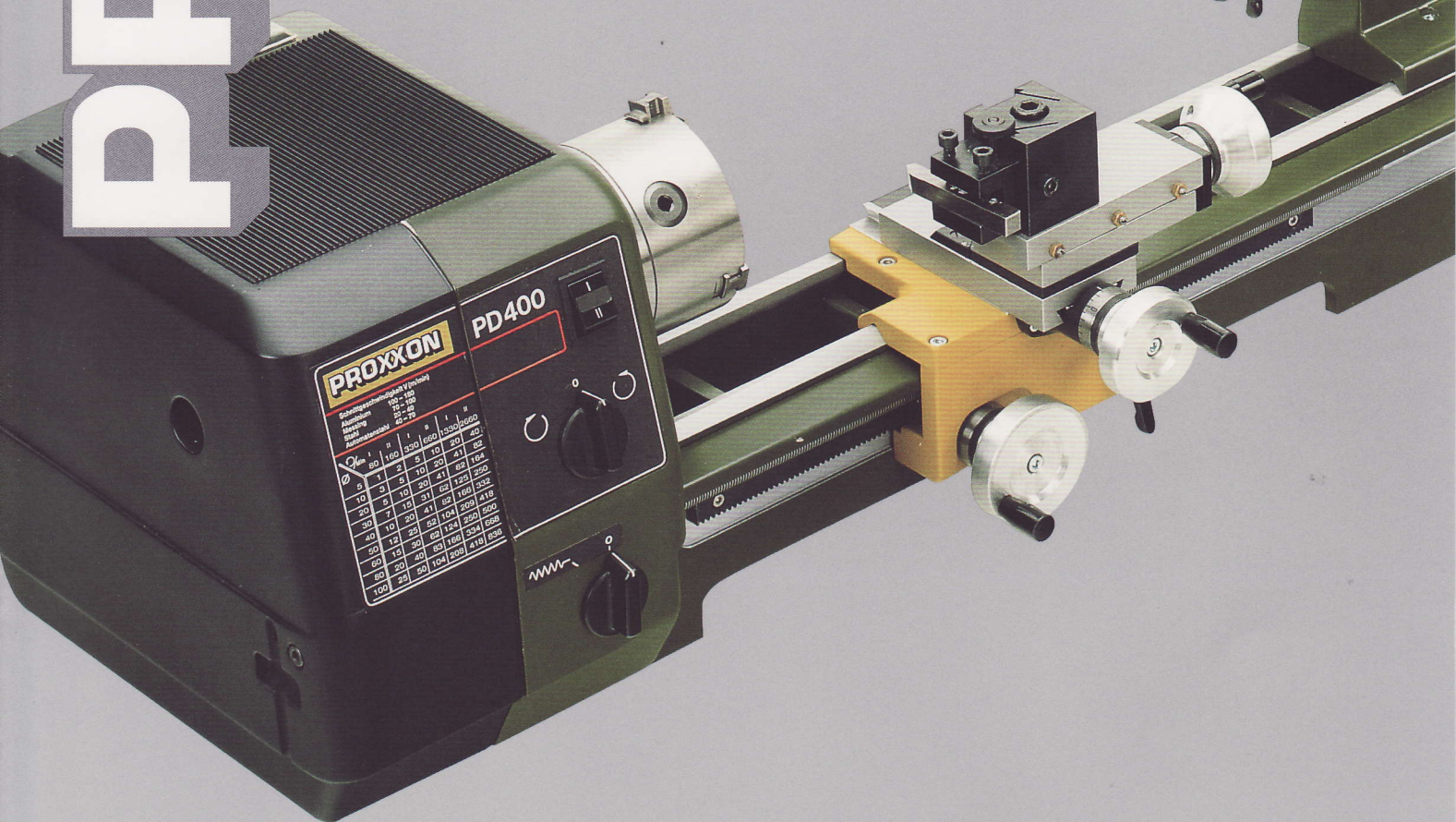
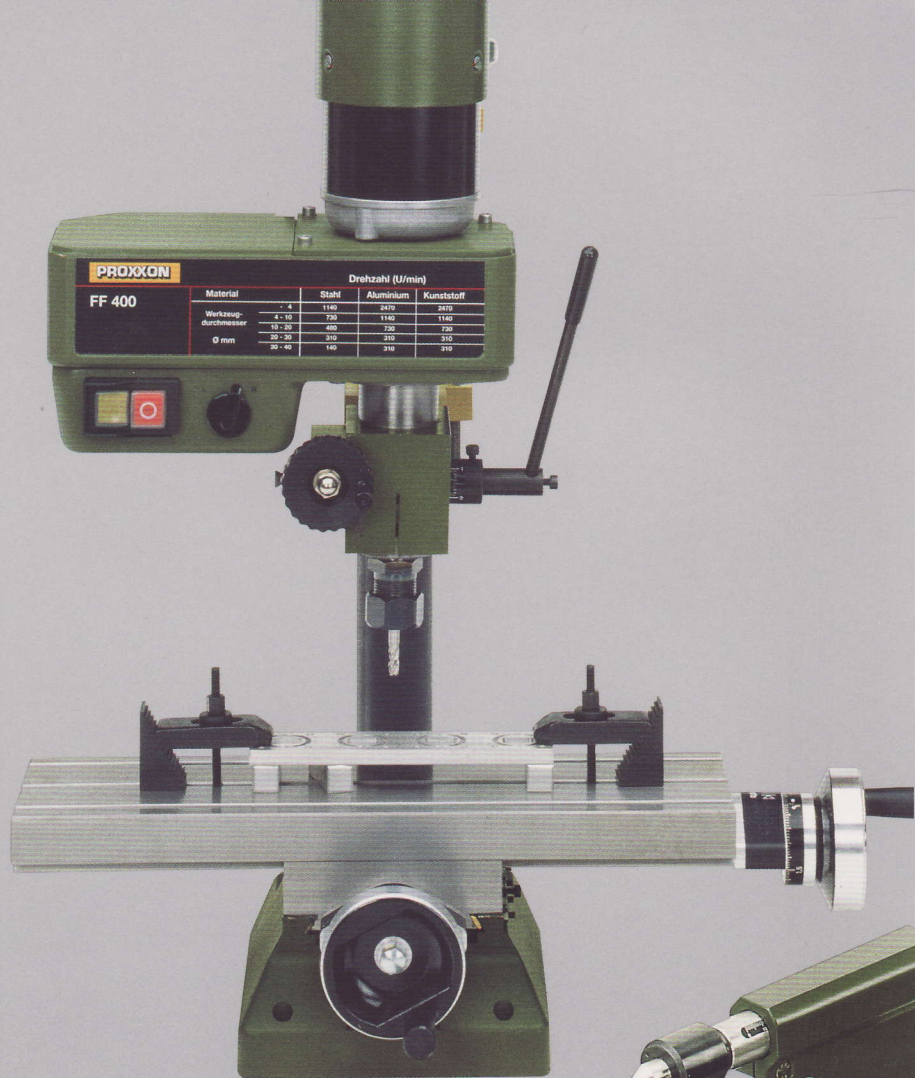


PROXXON



Lathe System PD 400



Complete with change gears to cut threads (in 19 steps from 0.2 to 3.0mm). Clearly positioned and easy to change.

Main switch with auto-start protection and emergency off.

RÖHM precision feed (Ø 100mm).

Powerful capacitor motor with 550W output power.



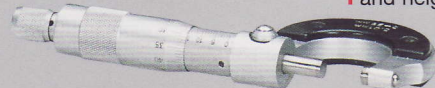
Selector for auto-feed.



Switch for clockwise, off and counter-clockwise rotation.

Apron handwheel.

Quick-change tool post with 2 holders (with stop and height adjustability).



Lathe PD 400 is the heart of a multifunctional and expandable system and is unequalled in its class!

Ideal for straight and cross cuts, taper turning, internal and external thread cutting, slotting, etc. Useable on materials such as steel, non-ferrous metals, aluminium and alloys. Negligible tolerances even under heavy loads. The wide range of accessories complements the lathe's functions. The bed is already equipped with a milled and tapped surface for securing mill/drill PF 400.

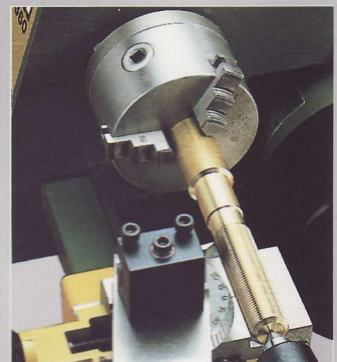
Technical data:

Distance between centres 400 mm and cross slide travel 85mm, over the top slide is 116mm. Solid, ribbed bed is made from quality cast iron with ground and hardened ways. Oversized spindle with 2 adjustable taper bearings. MK3 taper and 20.5mm bore. Run-out, without chuck, 5/1,000mm. Includes the precision 3 jaw chuck, 100mm diameter.

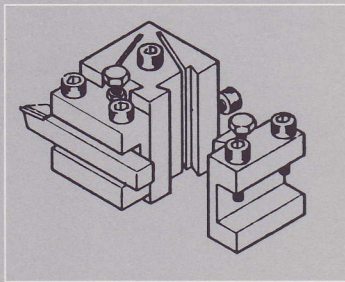
Six spindle speeds are provided via belt drive: stage 1: 80, 330, 1,400rpm and stage 2: 160, 660, 2,800rpm. Powerful, quiet motor with 550W power output. All adjusting wheels fitted with scales that may be zeroed.

One division = 0.05mm. The auto feed has speeds of 0.07 or 0.14mm/rev.

An integrated gearbox for LH and RH threads, with change gears provides 19 metric pitches: 0.2 - 0.25 - 0.3 - 0.35 - 0.4 - 0.45 - 0.5 - 0.6 - 0.7 - 0.75 - 0.8 - 0.9 - 1.0



DIN 8606. With gearbox.



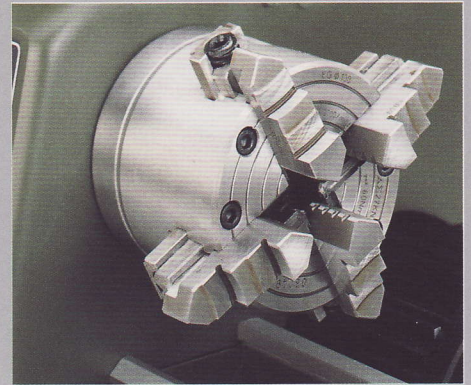
A tool holder with two adjustable inserts is included as standard.

Tool post

Including two holders. Provides quick tool changes with easy height adjustment.
NO 24 415

Individual quick-change holder

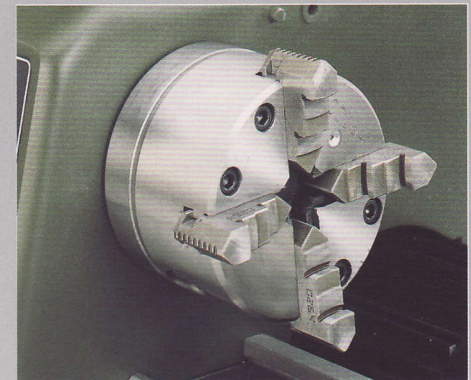
Fits the tool post of PD 400.
NO 24 416



4 jaw chuck with independent jaws

Used to mount irregularly and asymmetrically shaped objects. Each jaw is adjusted individually and centering is thus achieved manually. Hardened, reversible jaws. Chuck diameter 100 mm.

NO 24 410



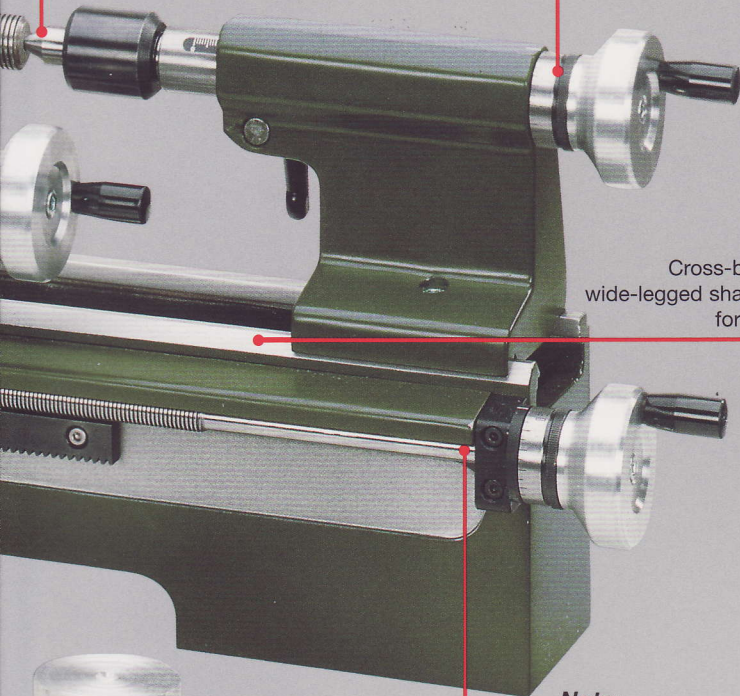
4 jaw chuck, self-centering

The jaws are not independently adjustable, i.e. they are self-centering. High accuracy. Chuck diameter 100mm.

NO 24 408

With rotating centre MK 2 and tailstock chuck.

Large aluminium handwheels and adjustable steel scale
1 division = 0.05mm.



Cross-braced cast iron bed, wide-legged shape, and prism slides for apron and tailstock.

Note:

Lathe PD 400 is now also available in CNC version with spindles running in ball bearings, stepping motor, control unit and easy to use WINDOWS compatible software. A special brochure is available. Feel free to ask for a copy.

Protected lead screw with 12 x 1.5 Acme thread.

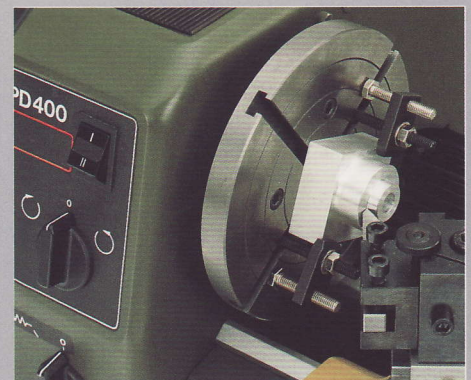
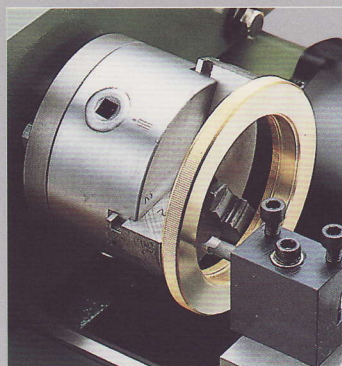
- 1.25 - 1.5 - 1.75 - 2.0 - 2.5 - 3.0mm. Imperial threads of 10 - 48 TPI are also possible.

A rotating centre MK 2 and tailstock chuck of 10mm capacity. B12 taper, are included. Lead screw with acme thread 12 x 1.5, top slide 52mm and adjustable to turn tapers, with graduations up to 45°.

Tailstock with MK 2, 24mm diameter and 40mm travel (with graduations).

Overall size approx. 900 x 400 x 300mm (L x W x H). Weight approx. 45kg. Uses cutting tools 10 x 10mm.

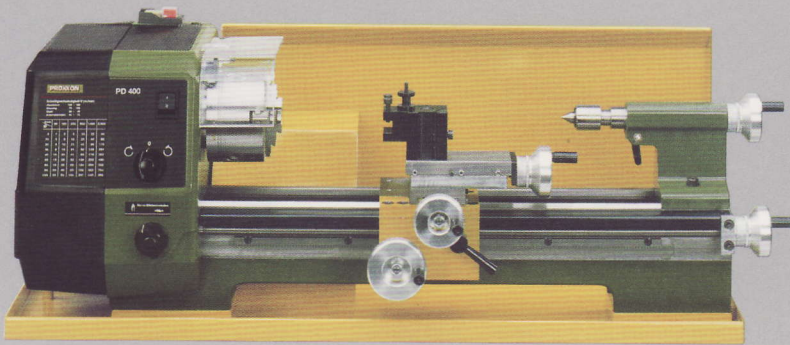
NO 24 400



Faceplate and clamps

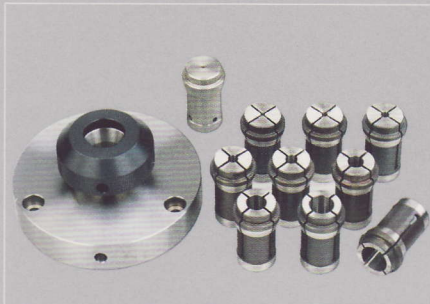
This accessory is used in the place of the standard chuck and mounts larger and asymmetrical workpieces. Diameter of 150mm, with 2 through T-slots, as well as mounting clamps.

NO 24 412



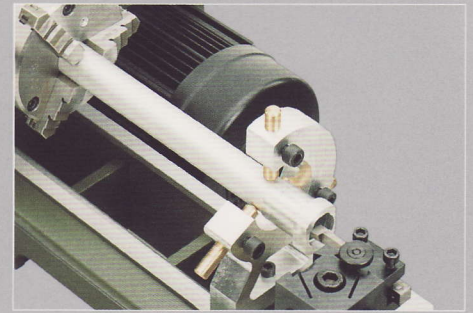
Splash guard and chip collecting tray

Made from 1.5mm steel plate, powder coated. A welded cover protects the motor. Mounting holes and raised base to secure the lathe are pre-drilled. Seeping through of coolant is impossible. Length 800 x width 270 x height 290mm.
NO 24 402



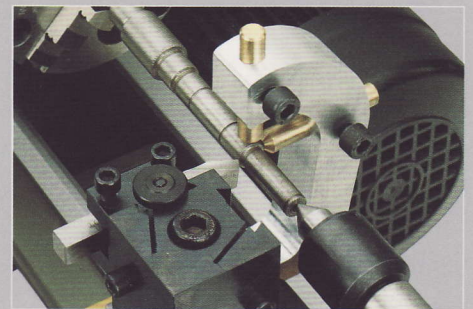
Collet set

For accurate use on round components. One each 2.0 - 3.0 - 4.0 - 5.0 - 6.0 - 8.0 - 10 - 12 and 14mm are included. Concentric accuracy better than 0.002mm, much better than a chuck. One soft collet for making a custom size yourself. The included collet attachment is mounted in the place of the headstock chuck.
Supplied in a wooden box.
NO 24 419 complete



Fixed steady

Used when turning long, slender work. Fitted directly to the bed-ways and is used when the tailstock support is inadequate.
Maximum Ø 50mm.
NO 24 404



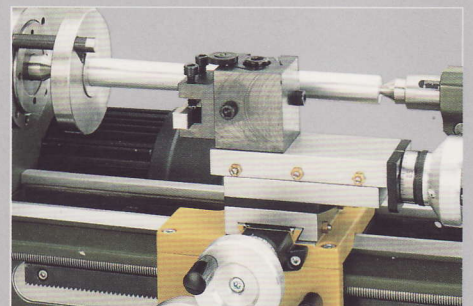
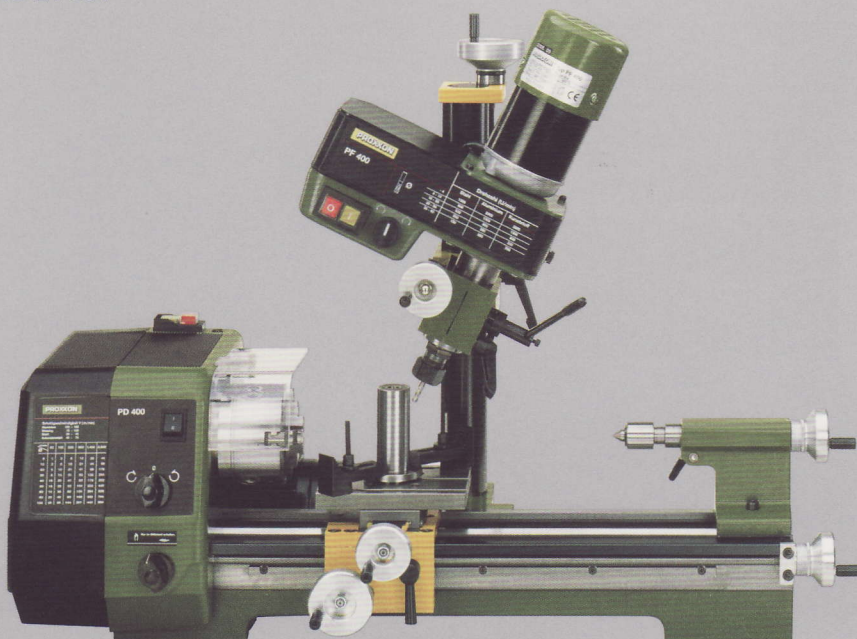
Travelling steady

Fitted to the carriage of the lathe. Indispensable when turning long, slender pieces.
Maximum Ø 50mm.
NO 24 406

Mill/drill PF 400

Kit also includes the mounting flange and screws (the mounting surface on the PD 400 is already machined). Identical to the MICRO miller FF 400, except that no compound table is supplied. Instead, a work surface of steel (150 x 110mm), with 3 milled T-slots for the standard T-nuts, is supplied. Two screws secure the work surface to the cross slide.

NO 24 304

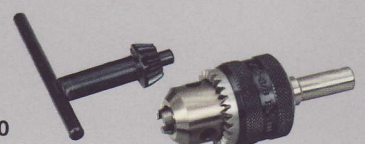


Centre turning accessory

Ideal when turning with highest possible accuracy. Supplied with 2 dead centres (MK2 and MK3), drive/face plate with 30mm bore as well as reducing bushes 30/20mm and 30/15mm. A threaded drive pin screws into the headstock flange and the drive plate.
NO 24 414

Gear tooth chuck (10mm) with adaptor

Industrial quality, however not as accurate as the collets. With 10mm adaptor which fits into the 10mm collet. Includes the chuck key.



NO 24 110

**MICRO miller for precision work to 0.05mm accuracy!
Quiet, looking good and multifunctional.**

MICRO miller FF 400

6 spindle speeds from 140 – 2,470rpm are achieved by means of a poly-V belt and pulleys.

Switch for CW or CCW rotation.

Large handwheels with adjustable scales.
1 rev = 2.0mm,
1 coarse division = 0.1mm,
1 fine division = 0.02mm.

Powerful, quiet capacitor motor (400W).

Large handwheel and dial for height adjustment.

Headstock with scale, tilts and locks in position. The lockable quill has a 30mm travel.

Quill accepts collets (one each of 6 – 8 – 10 and 12mm are included).

Machined table (400 x 125mm), with 3 T-slots.

Clamps, cutters and workpiece are not included.

Important!

Both the headstock and spindle can be locked in position when milling.

The headstock swivels through 360° indicated on a scale. The lockable quill has a travel of 30mm (via the handle and scale) and the throat distance is 100mm. Six spindle speeds of between 140 and 2,470rpm are achieved by means of pulleys and a poly-V belt. Cutting tools are secured in the 6, 8, 10 and 12mm collets provided. The headstock height is adjusted via the handwheel and dial (1 rev = 2.0mm) The solid, milled compound table has 3 T-slots for the 8 standard T-nuts.

Other technical data:

220 – 240V, 400W, 50/60Hz. Spindle speeds of 140, 310, 480, 730, 1,140 and 2,470rpm. Column 45 x 500mm and table 400 x 125mm. X and Y travel amount to 225 and 80mm respectively. Footprint size 370 x 350mm. Overall height approx. 600mm. Weight approx. 47kg. Complete with KT 400.

NO 24 308

Five piece collet set for millers PF 400 and FF 400

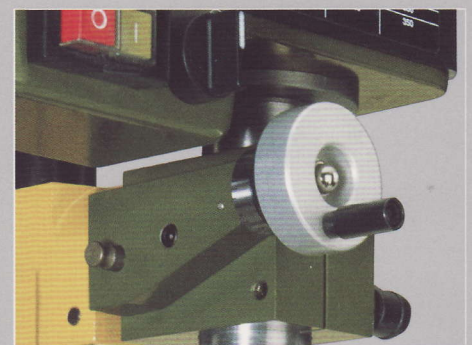
Includes 1 each of diameter 2.4 – 3.0 – 3.2 – 4.0 und 5.0mm, for milling cutters. Supplied in wooden box.

NO 24 252

Compound table KT 400

As described above but excluding the column and headstock. The 45mm bore also fits the precision drill stand BFB 2000. Weight 23kg.

NO 24 303



Fine feed for accurate adjustments

Quick and easy to install. The clutch system enables feed via either the drill handle or the handwheel.

The handwheel has 0.025 graduations and may be set to zero. 1 division = 0.05mm.

NO 24 254

Nearly all the components are supplied in sturdy wooden boxes.



Universal dividing table UT 400

Facilitates the manufacture of odd-shaped objects.

The table may be fixed horizontally or vertically. Drive takes place via the worm drive and in its 360° travel yields nearly all the divisions below 100. Supplied with 4 index plates: 27/42, 33/40, 34/39 and 36/38. Used to manufacture sprockets, gear-boxes and drives, ratchets, cams, etc. The faceplate is not included. The taper is identical to the head spindle of the lathe. Supplied in wooden box with sliding lid.

NO 24 421



Tool holder for rotary tools.
For use on lathe machines.

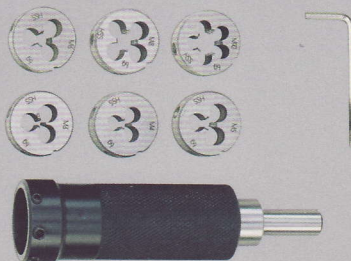


Made of steel 30 x 10 x 65mm.

This holder allows mounting of our rotary tool LB/E or IB/E to the tool post of the lathe for grinding or polishing purposes. MICROMOT collar size Ø 20mm. Shaft 8 x 10mm for tool holders of PD 400.

NO 24 098

Die holder for round dies, threads M 3 to M 10



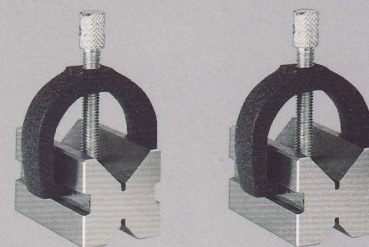
Sizes: M 3 - 4 - 5 - 6 - 8 - 10.

The straight shaft fits the holder Ø 10mm when mounted in the tailstock of the PD 400. The holder is held by hand while cutting the threads.

Comes in a wooden box.

NO 24 082

Precision V-blocks



Used to clamp various work pieces.

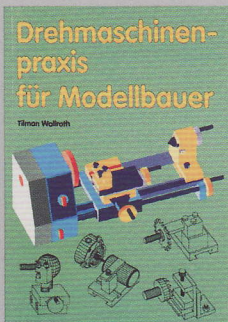
Made from hardened steel, precision ground in pairs. Four different depths of prism incisions V, all at 90°. Size 50 x 30 x 30mm. The solid clamp and knurled knob ensure superb securing of the workpiece.

Supplied in a wooden box with sliding lid.

NO 24 262 2 pieces

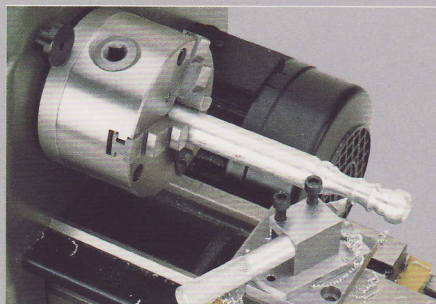
Lathe practice for model makers

An interesting book by Tilman Wallroth, in which all important lathe components and working stages are dealt with in a practical manner. Included are many easily understood examples, clear and informative illustrations and many tips for use. Highly scientific advice was deliberately omitted. 230 pages, written without reference to trademarks. German only!



NO 24 999

Radius cutting attachment

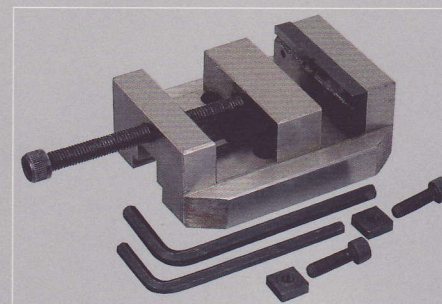


For the lathe system PD 400

Is mounted on the cross slide in place of the tool holder. Cuts convex and concave shapes to depth of 1.0mm in steel as well as in non-ferrous metals and plastics. Radii or 3/4" spheres of diameter up to max. 32mm are possible. Comes with one finishing cutter 8 x 8 x 80mm in a wooden box with sliding lid.

NO 24 061

Precision vise



Milled in steel.

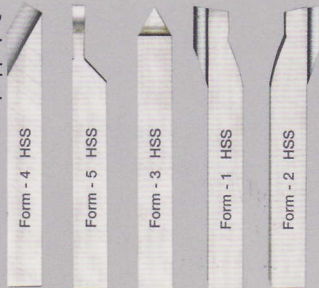
May be used on its side and back. Jaw width of 60mm, clamping capacity 42mm. Complete with securing bolts and packed in a wooden box with sliding lid.

NO 24 255

Cutting tools of high quality cobalt HSS steel, ground.

Five piece set 10 x 10 x 80mm.

One each roughing out, parting, finishing cut, left and right cutter.



Supplied in wooden box with sliding lid.
NO 24 550

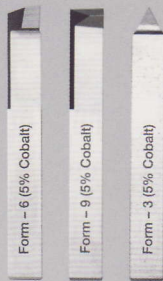
Three piece thread cutting set

10 x 10 x 80mm

One cutter for external thread (ground to 60°, metric) one for internal thread, one general cutting.

Supplied in wooden box with sliding lid.

NO 24 552



Cutter set with tungsten inserts

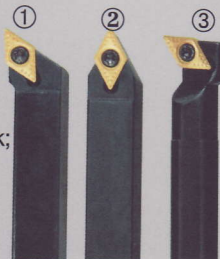
Three holders (90mm long)

- ① for roughing out;
- ② for longitudinal work;
- ③ for 90mm boring, holes from 12mm.

Standard tungsten inserts, 55°, plated (commercially available version).

Three additional inserts securing screw and key TX8 are included.

NO 24 556 10 x 10mm



Tungsten disposable tips

For the holders as described above.

NO 24 557 Ten piece set.

Milling cutter set (2 - 5mm)

All cutters with 6mm shaft. Cutters of Ø 2, 3, 4 and 5mm. Double fluted according to DIN 327. Made of HSS. Supplied in wooden box with sliding lid.

NO 24 610

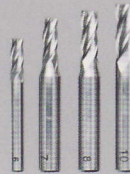


Milling cutter set (6 - 10mm)

4 cutters Ø 6, 7, 8 and 10mm. Four flute design according to DIN 844. Shafts 6.0 and 10.0mm respectively. Made of HSS.

Supplied in wooden box with sliding lid.

NO 24 620



Three piece centre drill set

Made of HSS steel. DIN 333 (type A) 60°. Complete set centre drills with sizes of 2.0 - 2.5 and 3.15mm.

NO 24 630



Arbor (A)

For HSS gear cutters. 16mm-fitting. Cylindrical shaft Ø 10mm.



NO 24 425

HSS gear cutters (B)

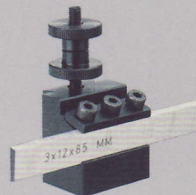
Module 0.5 x 40mm outside diameter. 16mm bore.

- NO 24 426** No 1 (12-13 teeth)
- NO 24 427** No 2 (14-16 teeth)
- NO 24 428** No 3 (17-20 teeth)
- NO 24 429** No 4 (21-25 teeth)
- NO 24 430** No 5 (26-34 teeth)
- NO 24 431** No 6 (35-54 teeth)

Parting tool holder and tool

Used in the PD 400 quick-change system. Used to part stock and cut slots. The 12 x 3 x 85mm HSS tool contains cobalt.

NO 24 417



Spare tool for parting tool holder

As described above.

NO 24 554

HSS boring tool set, 6 pieces



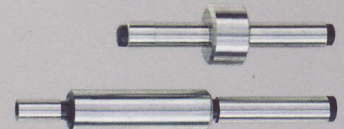
One each cutter for 60 degree (metric) and 55 degree (whitworth) inside threads, 1.3mm - 2.65mm and 4mm.

Shaft of Ø 6mm. Length 95mm. The cutters are held by a tool holder that mounts to the tool post of the PD 400.

Comes in a wooden box.

NO 24 520

Edge finder set



Used for fast and accurate location of starting point of workpieces with respect to the machine spindle on milling machines. Size 6 x 6 x 50mm and 6 x 5 x 75mm.

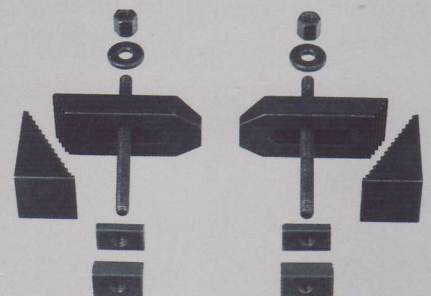
Neatly packed in a wooden box.

NO 24 434

Step clamp set, milled steel

Consists of 2 step blocks and 2 clamps, 2 nuts, 2 T slot nuts (B = 7mm, E = 12mm, D = 4mm, C = 7.2mm). Secures objects to approx. 35mm thick.

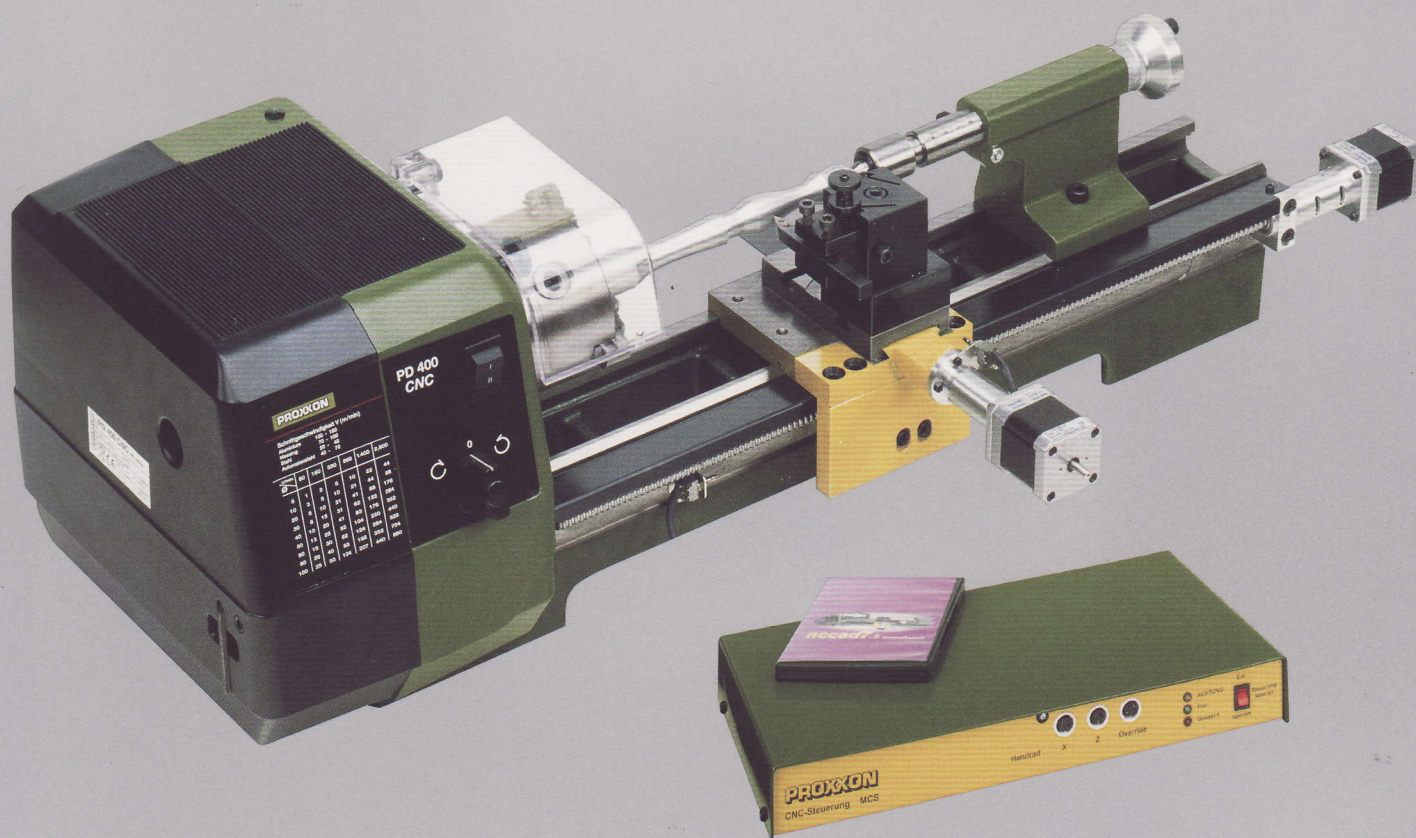
Supplied in wooden box with sliding lid.



NO 24 257

The tried-and-tested PROXXON lathe PD 400 is now also available in CNC version. Multi-purpose for individual parts and small series manufacture.

Please ask for our special brochure and also visit our website www.proxxon.com for detailed information.



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