



A small system used to mill, drill and countersink of steel, casting, aluminium, brass and plastic.

MICRO Miller FF 230

The headstock swivels through 360° indicated on a scale. Adjustment via hand wheel and dial (1 revolution = 1 mm, 1 division = 0.05 mm). Acts additionally as fine feed when milling or precise drilling. Quill and headstock may be locked in position, essential when milling. The powerful permanent magnet motor effects drive via a poly-v belt, yielding high torques, especially at lower speeds. Collets of 6, 8 and 10 mm are included. The solid steel table is T-slotted to the MICROMOT norm of 12 x 6 x 5 mm.

Technical Data:

220 - 240 V. 140 W. 50/60 Hz.
Spindle speeds: 280 - 550 - 870 - 1,200 - 1,500 and 2,200 rpm are achieved by poly-v belt drive. Quill travel 30 mm. Column 35 x 400 mm. Table 270 x 80 mm. Travel X (cross) 170 mm, Y (length) 65 mm. Size 180 x 130 mm. Total height approx. 500 mm. Weight approx. 17.0 kg.
Complete with KT 230.



NO 24 108

Important:

For clean milling it is recommended to headstock in position. The FF 230's lock levers achieve this effortlessly.

- ① Hand wheel for height adjustment and optional as fine feed for use when milling or precise drilling.
- ② Poly-V belt drive for 6 spindle speeds 280 - 2,500 rpm.
- ③ Assembled fine feed, work piece, clamp set and cutters not included.
- ④ Hand wheels with adjustable scale (1 revolution = 1 mm, 1 division = 0.05 mm).

Five Piece Collet Set (not depicted)

Includes 1 each of 2.4 - 3.0 - 3.2 - 4.0 and 5.0 mm, for round stock. Supplied in a wooden box and lid.

NO 24 144

Fine Feed

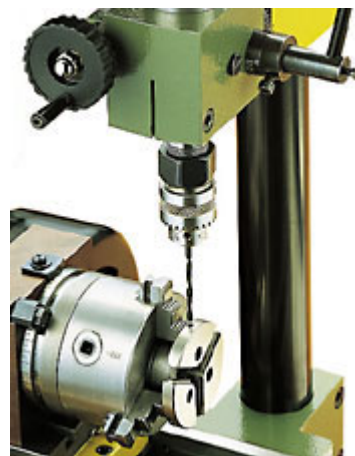
Easily installed. The feed may now be used via either the height feed (vertical) or the fine feed in the tilted position. One revolution = 1.5 mm spindle travel, one division = 0.05 mm. The graduated scale may be reset to zero.

NO 24 140

Gear Chuck, with 10 mm adapter

Industrial quality, however not as accurate as the collets. With 10 mm adapter fitting the 10 mm collet. Includes the chuck key.

NO 24 110

**MICROMOT Step Clamps made of steel**

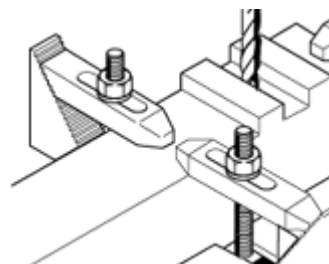
For safe fixing of small work pieces (up to 18 mm thick) to the MICRO miller MF 70. Also fits the mill/lathe systems PD 230/E and PD 400. Complete with 2 each stepped blocks and clamps, T-slot nuts of the MICROMOT standard (11.5 x 11 x 4 mm), bolts. Supplied in a wooden box with sliding lid.

NO 24 256

**Step Clamp Set**

Consists of 2 step blocks and 2 clamps, 2 nuts, 2 T-slot nuts (B = 7 mm, E = 12 mm, D = 4 mm, C = 7.2 mm). Secures objects to approx. 35 mm high. Supplied in a wooden box.

NO 24 257

**Precision V-Blocks**

Used to clamp various workpieces. Made of hardened steel, precision ground in pairs. Four different depths of V, all at 90°. Size 50 x 30 x 30 mm. The solid clamp and knurled knob ensure superb securing of the workpiece. Supplied in a wooden box and lid.

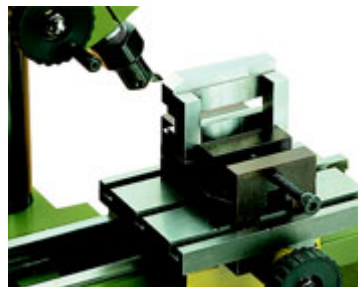
NO 24 262 2 pieces



Precision Vice, milled in steel

May be used on its side and back. Jaw width 60 mm, clamping capacity 46 mm. Complete with securing bolts and packed in a wooden box.

NO 24 255

**Three Piece Centre Drill Set**

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

NO 24 630

**Milling Cutter Set (2 - 5 mm)**

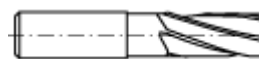
All with 6 mm shank. Consists of cutters 2, 3, 4, and 5 mm diameter. Double fluted, to DIN 327. HSS. Supplied in wooden box.

NO 24 610

**Milling Cutter Set (6 - 10 mm)**

Consists of cutters 6, 7, 8 and 10 mm diameter. Four flute, to DIN 844. All with 6 mm shank. HSS. Supplied in wooden box.

NO 24 620

**1 Arbor**

Used with gear cutters with 16 mm bore, 10 mm shaft.

NO 24 425

2 HSS Gear Cutters

Module 0.5 x 40 mm, 16 mm bore.

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



Dividing Attachment

Facilitates the machining of gear teeth and non-concentric patterns. Supplied with two dividing discs (40 and 48 steps), enabling standard divisions of 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 40 and 48. The spindle is identical to that of the lathe. The 3 and 4 jaw chuck may therefore be fitted to it as well (the chuck is an optional accessory). May be fitted to the lathe's cross slide or to the bed and can be fitted to the FF 230. Supplied in a wooden box and lid.

NO 24 131

**Three Jaw Chuck, self centering**

Self centering with reversible jaws. Capacity 2 - 68 mm. Chuck body made of steel. Suitable for PD 230/E and dividing attachment NO 24 131 (as depicted on the PD 230/E).

NO 24 028

Compound Table KT 230

As shown above. Incl. 35 mm bore and reducing bush to 34 mm. Suitable for PF 230 and PF 210. Without headstock and column.

NO 24 106