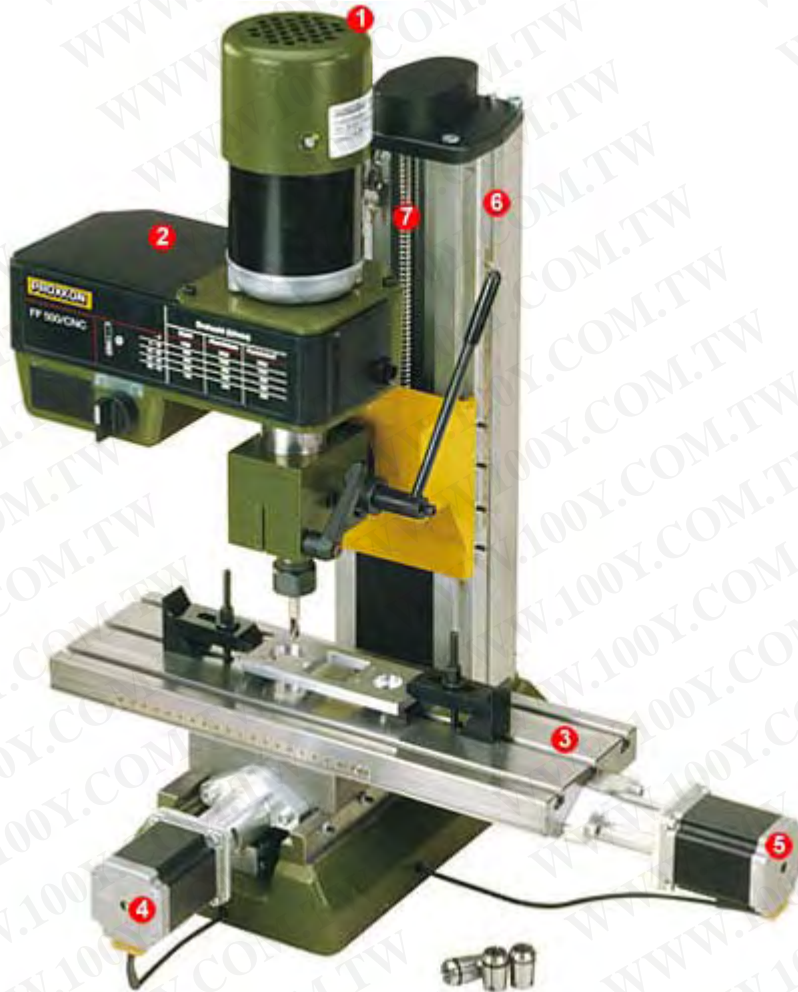


FF 500 with CNC control! Precision and repeat accuracy for individual parts and small series. Made in Europe!

- With recirculating ball spindles on all three axes and three powerful step motors for driving compound table and milling head.
- Large travel distances: X-axis: approx. 290mm, Y-axis: approx. 100mm, Z-axis: approx. 180mm.
- Stable column with dovetail slideway.
- Including user-friendly software. Runs under WINDOWS® (see description below).



- 1 Powerful, quiet and shock-free running condenser motor (400W).
- 2 Poly V-belt drive for 6 spindle speeds from 180 - 2,500/min.
- 3 Flat-milled table in steel (400 x 125mm) with 3 continuous T-nuts.
- 4 Step motor for Y-axis (travel distance approx. 100mm).
- 5 Step motor for X-axis (travel distance approx. 290mm).
- 6 Stable column with dovetail slideway.
- 7 Recirculating ball spindle for Z-axis. Drive via step motor mounted in column (travel distance approx. 180mm).

Note:

Since the mechanical design of the FF 500/CNC is almost identical to the FF 500, the accessories supplied for it can be used without restriction.

MICRO miller FF 500/CNC

Thanks to CNC control of 3 tool axes machining of steel and non-ferrous metals is possible in all dimensions. This also applies to larger work pieces!

Axes drive with recirculating ball spindles (no backlash) and powerful step motors. Otherwise the mechanical design is almost identical to the MICRO miller FF 500: Solid, flat-milled compound table in steel with 3 continuous T-slots for size 8 standard T-nuts. Base of vibration-damping cast steel. Stable column with dovetail slideway. Milling head can be pivoted to the left and right by 90°, with powerful, quiet and shock-free running condenser motor. Poly V-belt drive for 6 spindle speeds (180 - 2,500/min). Additional sleeve feed (30mm) using drilling lever with scale ring (1 graduation line = 1mm). Work piece fixing using steel collets.

Complete with CNC control unit, CNC programme software, all connecting cables, one each steel collets 6 - 8 - 10 and 12mm and detailed manual.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

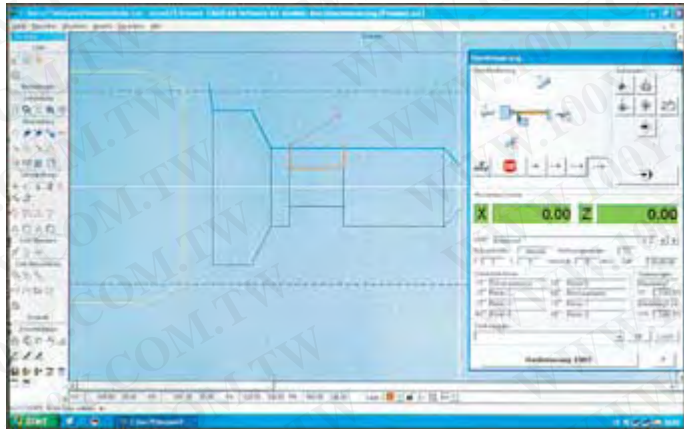
PROXXON CAD/CAM software for WINDOWS®

Brief description of software and hardware:

The software is harmonized with mechanics, motors and the control unit of the CNC machine, thus offering the optimum performance.

The CNC control unit controls the step motors of the machine. The PC software provides the machine with the geometry information for travel of the tools (via RS 232 interface). This means that the control unit is the interface between software and the mechanics of the machine.

Powerful micro processors and accordingly dimensioned step motors and phases ensure that the motors always provide enough power for any machining processes. Two freely usable output relays in the casing of the control unit provide facilities for control of additional functions, e.g. a working lamp. Including connection cables with suitable plugs and built-in power supply for connection to 220 - 240V.



Simple creation of work piece geometry

The CAD window is displayed when the programme starts. The work piece contour is created in the familiar WINDOWS® environment. Numerous auxiliary aids help during programme operation, which supports both coordinate entry (absolute and relative) in addition to mouse use. Read-in of existing files in standard file formats (e.g. .dxf or .hpgl) is possible.

Technology information is allocated to every drawing element. This makes, for example, different processing speeds and manual tool replacement possible.

Automatic generation of CAM data

The finished drawing of the tool is converted, by a mouse click, into the instruction set for the machine. So, machining can be started immediately. The instruction set generated in this way is in accordance with DIN/ISO 66025 and can be manually edited and exported. Conversely, the system also permits importing or complete self writing of data sets.

CNC simulation

If requested, the travel distances of the tool are simulated in the graphic window. In this way, faults in the programming can be recognised in time.

Manual work

The handwheels are replaced with the step motors of the CNC machine. Nevertheless, manual machining is possible with the help of cursor buttons, since the step motors can be operated manually.

Software installation

The PC software is supplied on a CD ROM. The problem-free installation is effected automatically under Windows®.

Note:

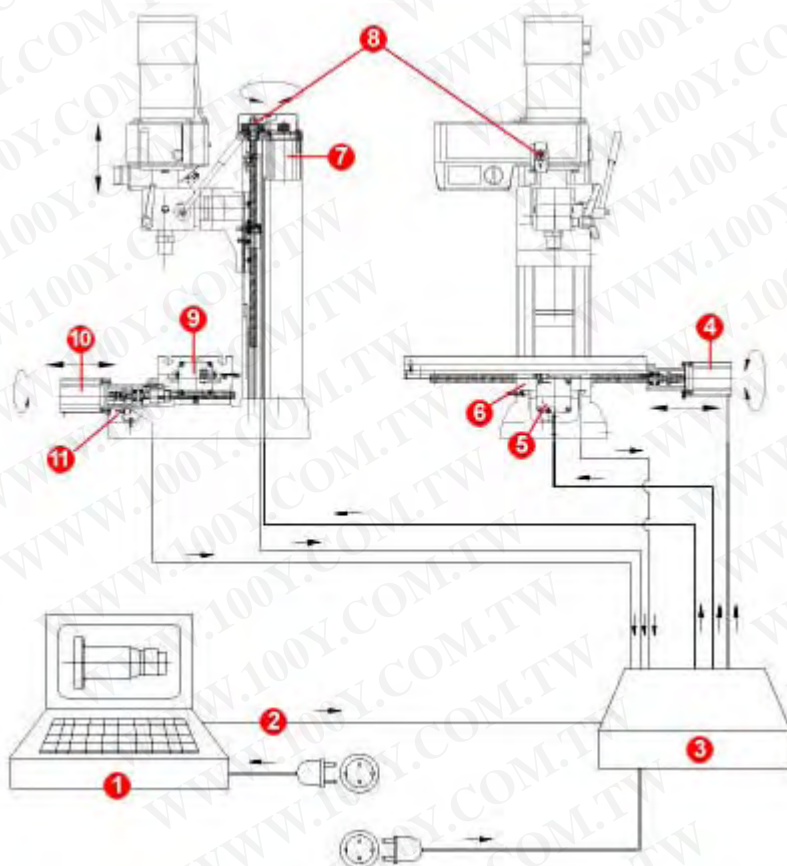
PC or laptop are not part of the scope of delivery. Minimum requirements for the hardware: Pentium processor with 400 MHz frequency (or comparable), high-quality graphic card (64 MB RAM) and at least 40 MB free hard disc storage.

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Technical data:

Power supply	220 - 240V / 50/60Hz
Drive	condenser motor with 400W
Spindle drive	Recirculating ball spindle with 4.0mm inclination, flank diameter 12mm.
X-axis	Step motor with 2.2A und 1.27Nm dwell moment; travel distance: approx. 290mm
Spindle drive	Recirculating ball spindle with 4.0mm inclination, flank diameter 12mm.
Y-axis	Step motor with 2.2A und 1.27Nm dwell moment; travel distance: approx. 100mm
Spindle drive	Recirculating ball spindle with 4.0mm inclination, flank diameter 12mm.
Z-axis	Step motor with 2.2A und 1.27Nm dwell moment; travel distance: approx. 220mm
6 spindle revolutions	180 - 350 - 550 - 800 - 1,300 - 2,500/min Selectable by placing drive belt.
Control of step motors	via CNC control unit (included in scope of delivery)
Software	on CD-ROM, installation under Windows 98, Windows 2000 and Windows XP
Drive connection	via RS 232 interface (or: use of a USB adapter), connecting cables to PC included in scope of delivery
Sizes	Machine: work table 370 x 350mm, table 400 x 125mm, total height approx. 780mm Control unit: L 450 x W 270 x H 60 mm
Total weight	Machine: approx. 50kg / Control unit: approx. 4kg

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- 1 Computer with software
- 2 RS 232
- 3 MCS-multicontroller
- 4 Step motor (X-axis)
- 5 Step motor (Y-axis)
- 6 Switch X-axis
- 7 Step motor (Z-axis)
- 8 Switch Z-axis
- 9 Step motor (X-axis)
- 10 Step motor (Y-axis)
- 11 Switch Y-axis