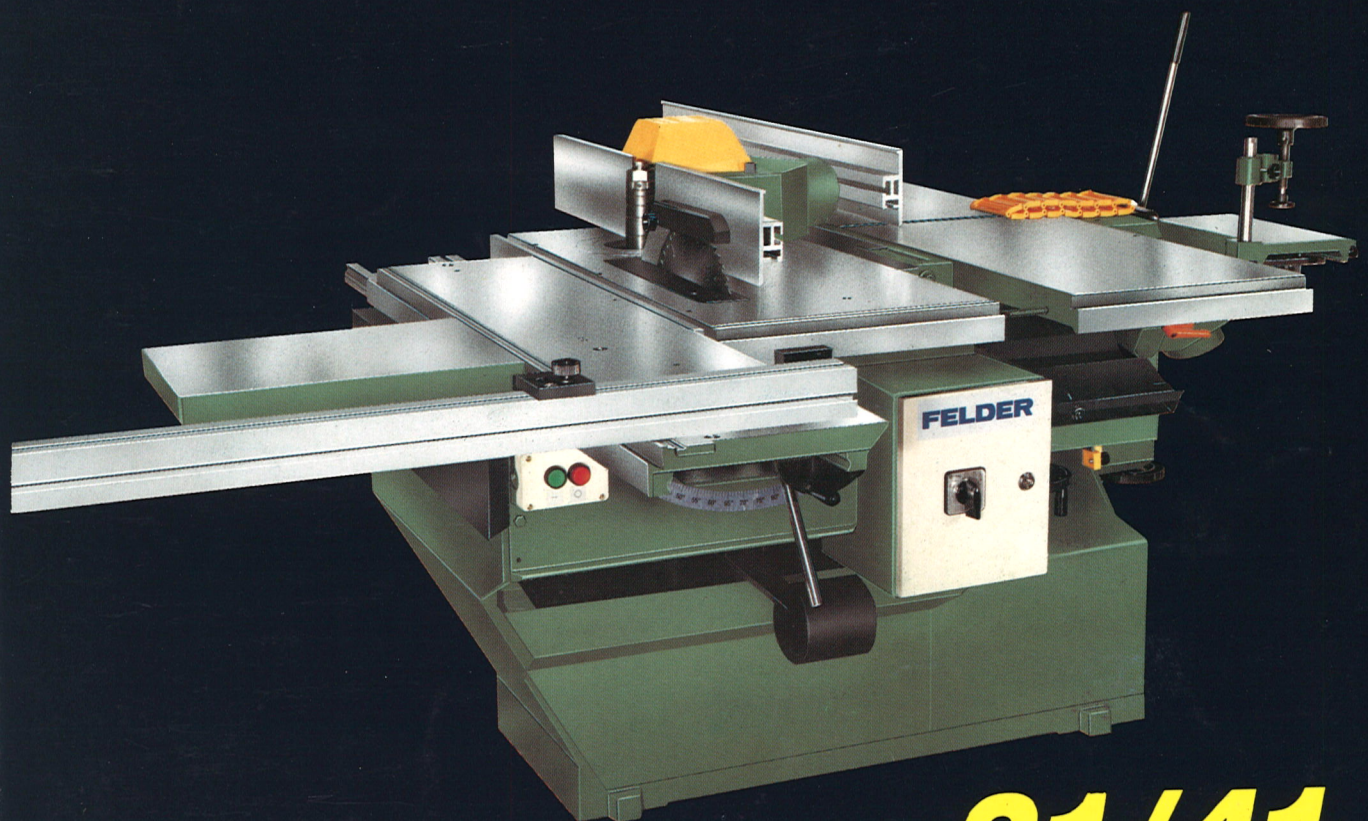


FELDER

BF5

***The Complete
Woodworking
System***



31/41

FELDER **BF5 31/41**

The BF 5 31/41 Woodworking System

With over thirty years of experience in the manufacture of high-quality woodworking equipment, FELDER of Austria is pleased to present the **new** state-of-the-art in combination machinery! The result of intensive research to meet the needs of a broad range of users, the **FELDER BF5** is today's standard of the woodworking industry and is designed to perform even the most exacting woodworking tasks.

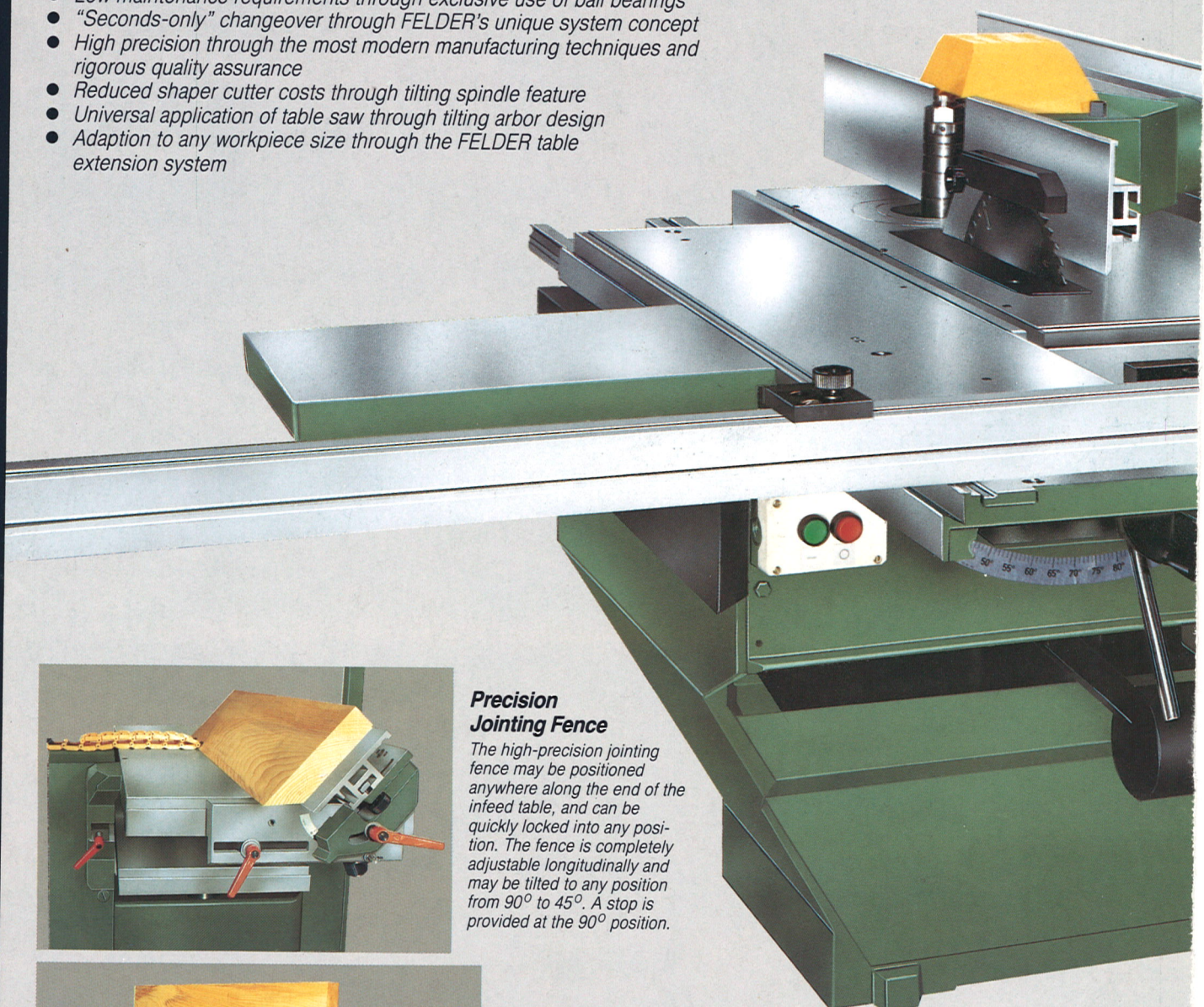
The BF5 differs from all other combination machines by virtue of its enormous crosscutting capacity, oversize support surfaces, sophisticated design, massive cast construction, and many other features.

With a FELDER Woodworking System in your shop, you have:

- Durable performance for decades to come
- Broad application potential
- Exceptional stability and precision
- Shortest possible set-up times
- High detail capabilities

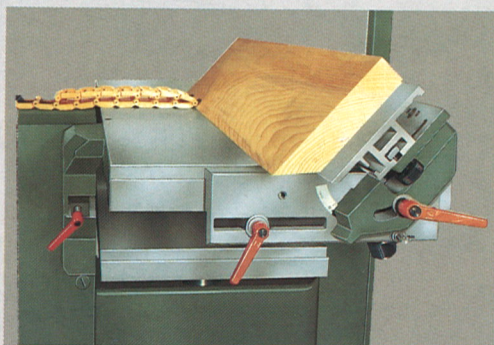
The above performance is accomplished through FELDER's unique design concepts, which include

- Completely stable, vibration-free construction through all cast components
- All cast structural and support components
- Low maintenance requirements through exclusive use of ball bearings
- "Seconds-only" changeover through FELDER's unique system concept
- High precision through the most modern manufacturing techniques and rigorous quality assurance
- Reduced shaper cutter costs through tilting spindle feature
- Universal application of table saw through tilting arbor design
- Adaption to any workpiece size through the FELDER table extension system



Precision Jointing Fence

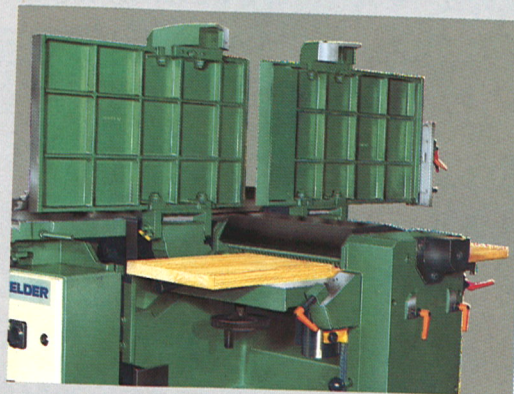
The high-precision jointing fence may be positioned anywhere along the end of the infeed table, and can be quickly locked into any position. The fence is completely adjustable longitudinally and may be tilted to any position from 90° to 45°. A stop is provided at the 90° position.



Jointing and Surfacing

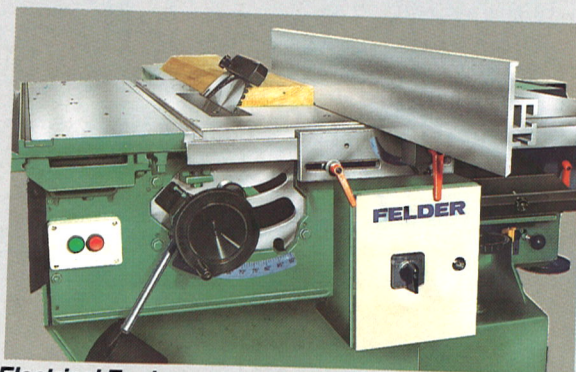
Safe, convenient jointing is made possible through the quick removal feature of the mortising table and its support. Cutting depth is adjusted using a handwheel to infinitely variable dimensions between 0 and 5 mm (.20"). The outfeed table is similarly adjustable, permitting the creation of concave and convex edges as well as straight ones. A convenient scale is provided to indicate cutting depth. Should you need a longer jointer bed for precise work in long parts, the patented FELDER Table Extension System may be employed to increase your jointer table length by as much as 40", to over 90" total length!





Planing/Thicknessing

For this operation, both jointing tables are tilted up. This ensures an obstruction-free work area, and complete access to your machine. Both the jointing tables are automatically locked securely into the upright position. The chip discharge chute is already mounted on the machine and is simply flipped over the top of the cutterhead and locked into position. The thicknessing depth is adjusted with the handwheel between 0 and 200 mm (7 7/8"). The automatic feed lever is located immediately to the right of the infeed area, and can be engaged either while the machine is at rest or while it is running. Should you need to plane a particularly long workpiece, you may extend the outfeed end of the planer table using the patented FELDER Table Extension System. This will extend your planing surface to a maximum length of 1090 mm (43").



Tilting Arbor Saw and Electrical Equipment

The Tilting Arbor system of the BF5 Woodworking System is completely vibration free due too the exclusive use of cast components. Consequently, your FELDER Saw guarantees you the most precise sawing function possible.

The saw blade may be positioned from 90° to 45°, and both the 90° and 45° positions are equipped with adjustable stops. A scale is provided to indicate your blade position. Cutting depth may be adjusted using a handwheel with indicators to show cutting depth from 0 to 95 mm (3 3/4").

Bevelled cuts in panels or other large workpieces are particularly simple and easy to accomplish without error through the precision-oriented design of the FELDER System.

The individual machines contained in your FELDER are driven by three separate motors. A fully electronic switching center consists of the following components:

Function selector switch · Two individual On/Off switches · Motor safety switch

Your BF5 System may also be equipped with an optional electronic brake system which will bring any of the FELDER machines to a stop within six seconds!

An electric safety plug is provided, allowing you to wire your three-phase line directly into your FELDER without difficulty.

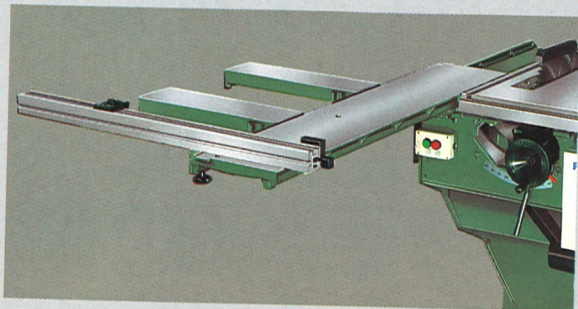
Single-phase converters are readily available at considerable savings over standard single-phase design.



Circular Sawing

Precise ripping is made possible even on large workpieces through the high-precision rip fence, which may be positioned for cutting widths from 0 to 830 mm. Unlike many other combination machines, the FELDER does not contain a ripping "blind spot". The rip fence is also infinitely adjustable longitudinally, and can be laid flat for precise control of narrow or thin workpieces (laminates), with a working height of only 10 mm (25/64").

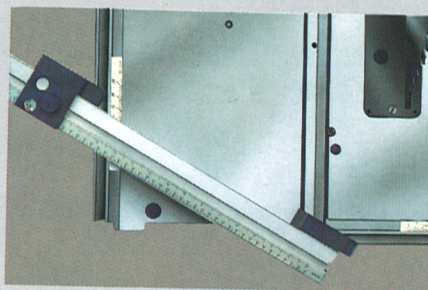
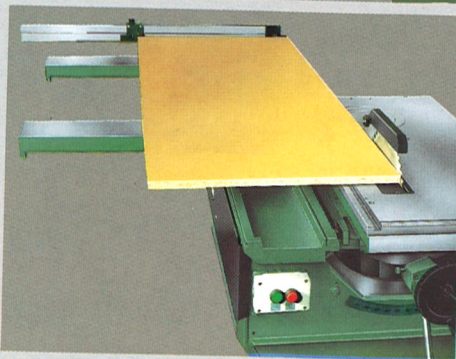
The saw table may also be extended in any direction using the patented FELDER Table Extension System, with a potential table length of up to 1950 mm (76 3/4").



Heavy-duty Sliding Table

The FELDER Sliding Table runs in a specially-designed ball-bearing track, which assures a zero tolerance movement of the table. Integrated scrapers maintain a clean track for the bearings. Particularly attractive features of the sliding table include its all-cast construction and crosscutting capacity of up to 1,420 mm (56").

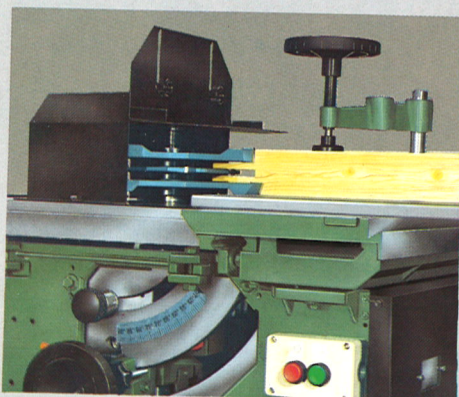
The precision crosscut and mitre fence may be utilized on this sliding table either in front or behind the workpiece. In addition, the sliding table may be equipped with the optional patented FELDER Table Extension, to increase its support surface area to a maximum of 1250 x 890 mm (49" x 35").



Precision Crosscut and Mitre Fence

The precision crosscut and mitre fence may be positioned at any angle desired. The mm/inch scale allows a precise adjustment of the cutting length, utilizing the integrated magnifying lens. The repeat cut-off stop may be height adjusted as well, and can be moved out of the way if not needed.

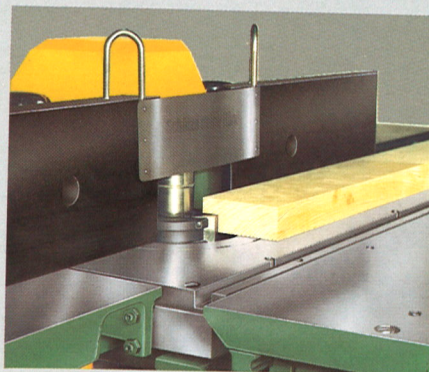
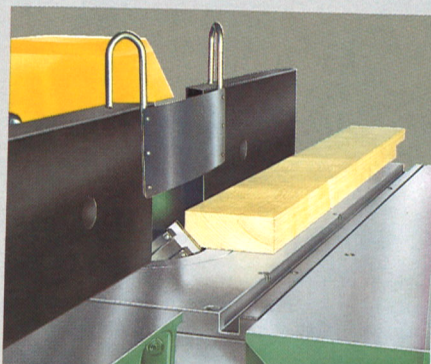
This high-precision fence may be used in front or behind the workpiece for maximum flexibility.



Mortise and Tenoning Functions

The highly stable, ball bearing supported and precision ground shaper spindle will allow you to use large and heavy cutting tools.

Mortise and tenon tasks may be easily performed using the sliding table and a special guard, thus affording you maximum precision, efficient operation, and, above all, accident-free performance.



Tilting Shaper Spindle

To afford you drastic savings in shaper cutters, the FELDER System is equipped with a tilting spindle shaper, which allows positioning of your spindle anywhere from 90° to 45°. This provides optimum utilization of your FELDER System, even with only standard, inexpensive cutters.

The height of the shaper spindle is adjustable with a handwheel, and may be adjusted to a tolerance of .1 mm (.004").

The tilting arbor design and operation is like to that of the tilting arbor saw, including all-cast construction and complete adjustability.

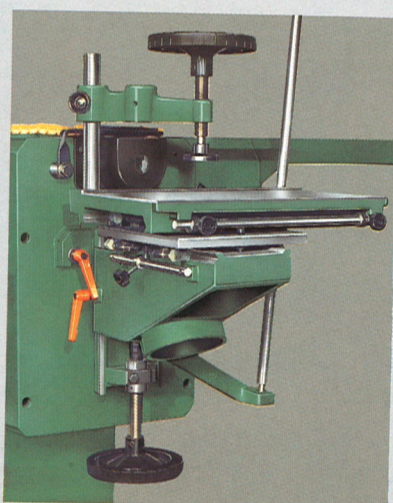
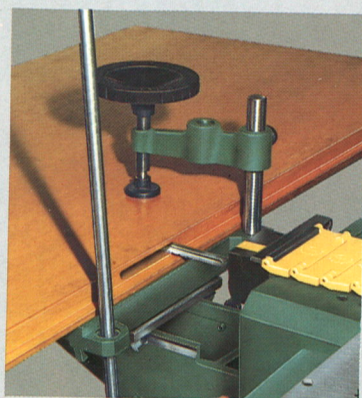
For fast changeovers, the shaper spindle may be completely removed with cutters in place.

This also allows you a quick later return to your shaping function without needless readjustment.

Shaping

The shaper fence with its cast construction assures precise, accident-free operation.

The standard shaper table, 950 mm (37.4") long, may be extended using the patented FELDER Table Extension System to a maximum of 1950 mm (76 3/4").



Boring

A dual-jaw boring chuck, housed for safety in a specially-designed cover allows you a cutter diameter capacity from 0 to 16 mm (5/8"). The chuck may be set to operate in either a left-hand or righthand rotation for additional flexibility. It is also possible to use larger diameter cutters as long as their base diameter does not exceed 16mm. The boring table is supported on prismatic ball bearings for zero tolerance operation, and is operated with a single lever for maximum comfort and control. Even large workpieces can be comfortably worked by tilting up the jointer infeed table and covering the planer cutterhead during your boring operation. The absence of any obstructions on the outboard side of your table ensures the ability to work with even the largest workpieces without modification of your machine. Boring length and depth are set using end stops, and the boring height is adjusted via a handwheel. Special synthetic scrapers keep your operating tracks clean and free of dust and foreign material. The cast construction of the FELDER boring/mortising table assures you the highest degree of precision and warp-free performance, even under maximum loading. The table may also be easily removed for greater convenience of jointing and planing operations, simply by loosening two quick-release levers.

Felder in Action!

Technical Data **BF5 31** **BF5 41**

Jointer/Planer

Jointing/Planing Width	310 mm (12")	410 mm (16")
Planing Thickness Minimum—Maximum	3–200 mm ($\frac{1}{8}$ – $7\frac{7}{8}$ ")	3–200 mm ($\frac{1}{8}$ – $7\frac{7}{8}$ ")
Total Length of Jointing Tables	1300 mm (51")	1500 mm (59")
Cutterhead Diameter	86 mm ($3\frac{3}{8}$ ")	86 mm ($3\frac{3}{8}$ ")
Number of Knives (U.S. Version)	3	3
RPM	5,000	5,000
Maximum Cutting Depth	5 mm ($\frac{3}{16}$ ")	5 mm ($\frac{3}{16}$ ")
Automatic Feed Rate	7.5 m/minute (24.5 ft/min.)	7.5 m/minute (24.5 ft/min.)

Table Saw

Arbor Diameter	30 mm	30 mm
RPM	4800	4800
Blade Diameter Minimum—Maximum	150–300 mm (6"–12")	150–300 mm (6"–12")
Cutting Depth—Maximum	95 mm ($3\frac{3}{4}$ ")	95 mm ($3\frac{3}{4}$ ")
Tilt Range	90° to 45°	90° to 45°
Cutting Width (Min. to Max.)	0 to 830 (1180 mm)	0 to 930 (1430 mm)
Infinitely Variable	[30 (46.5")]	[36 (56")]

Shaper

Spindle Diameter	30 mm or $1\frac{1}{4}$ "	30 mm or $1\frac{1}{4}$ "
RPM	3800, 6100, 7800	3800, 6100, 7800
Maximum Cutter Diameter	270 mm (10.6")	270 mm (10.6")
Shaper Spindle Tilt	90°–45°	90°–45°
Table Saw/Shaper Table Surface Area	950 x 460 mm (37.4"x18.1")	950 x 460 mm (37.4"x18.1")

Sliding table

Sliding Table Cutting Length	1150 mm (45 $\frac{1}{4}$ ")	1420 mm (55 $\frac{7}{8}$ ")
Total Surface Area with Extensions, Max.	950 x 750 mm (37.4"x30.3")	1220 x 750 mm (37.4"x30.3")

Electricals

Number of Motors	3	3
Motor Power	3 x 220 V, 2.2 KW (3 HP), 60 Hz, IP 54	3 x 220 V, 2.2 KW (3 HP), 60 Hz, IP 54
Optional Motor Power, Single Phase	2.0 KW (2.8 HP)	2.0 KW (2.8 HP)
Optional Motor Power	3 KW (4 HP) U.S. Version	3 KW (4 HP) U.S. Version

Boring Chuck

Dual-jaw, Four-point Contact Design with dual-rotation Capacity Range	0–16 mm ($\frac{5}{8}$ ")	0–16 mm ($\frac{5}{8}$ ")
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Mortising/Boring Table

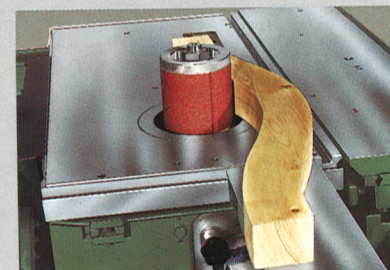
Single Lever Operation, All-Ball Bearing		
Boring Length Maximum	220 mm (8 $\frac{5}{8}$ ")	220 mm (8 $\frac{5}{8}$ ")
Boring Depth Maximum	150 mm (5 $\frac{7}{8}$ ")	150 mm (5 $\frac{7}{8}$ ")
Boring Height, Maximum	120 mm (4 $\frac{3}{4}$ ")	120 mm (4 $\frac{3}{4}$ ")

Dimensions and Weights

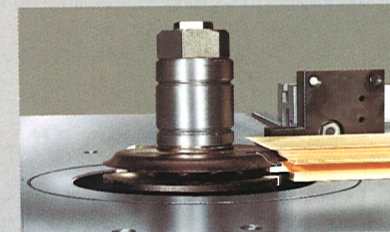
Total Height	830 mm (33")	830 mm (33")
Transport Width, Maximum	830 mm (33")	830 mm (33")
Net Weight	610 Kg (1350 lbs)	790 Kg (1740 lbs)
Gross Weight	650 Kg (1430 lbs)	830 Kg (1830 lbs)

Packing Crate Dimensions

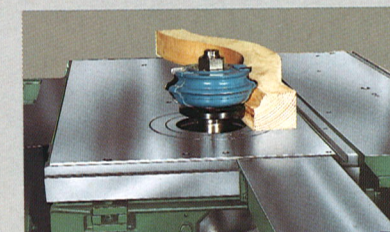
Length	1450 mm (57")	1450 mm (57")
Width	1130 mm (44 $\frac{1}{2}$ ")	1130 mm (44 $\frac{1}{2}$ ")
Height	1050 mm (41 $\frac{1}{2}$ ")	1050 mm (41 $\frac{1}{2}$ ")



Edge Sanding • For profile sanding of curved or straight edges, your FELDER Shaper can become a drum sander.



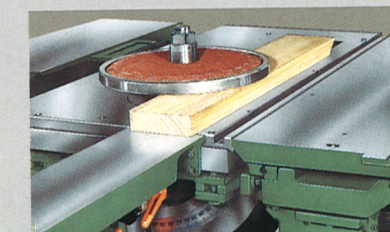
Shaping Profiles • Using profiles cutters, you are able to produce frame corner joints quickly and easily.



Profile Shaping • With optional shaper rings, profile cuts may be applied to curved as well as straight workpieces with even cutting depths throughout.



Raised Panels • Panel raising can be accomplished quickly and easily by using standard shaper cutters for low tooling costs.



Thickness Sanding • To sand frames, mouldings, or boards to a particular thickness, the sanding plate may be attached to your shaper spindle.



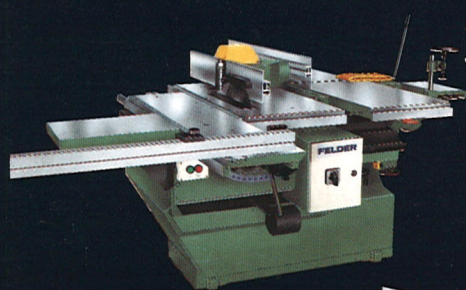
Trimming Rail • This option allows straight-line ripping of boards and panels in sizes up to 2500 mm (98 $\frac{1}{2}$ ").

FELDER

Woodworking Systems

Konzeption: VIDEOGRAPHIC, Innsbruck

The Manufacturing Program



Woodworking
System **BF 5 31/41**

Jointer/Planer
BF 5 31/41 AD

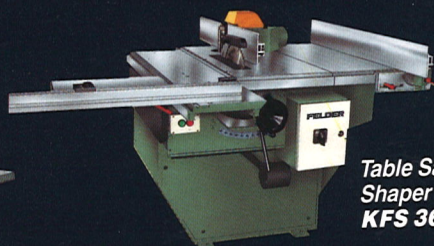
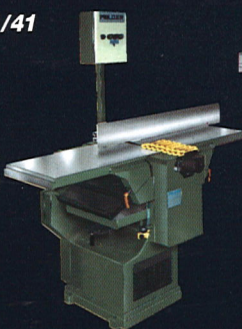
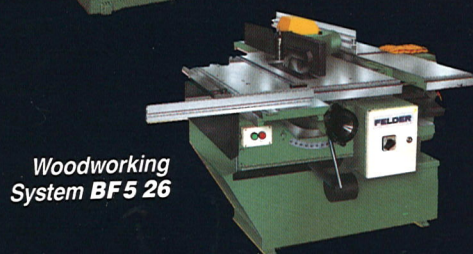
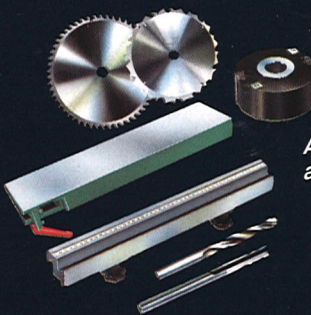


Table Saw/
Shaper
KFS 36



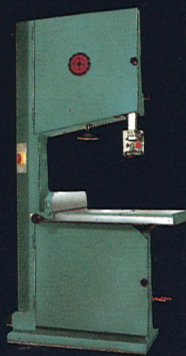
Woodworking
System **BF 5 26**



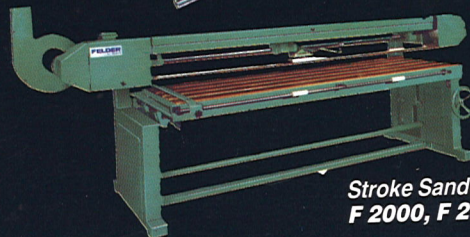
Accessories
and Tooling



Edge Sanding
Machine
F 650



Bandsaws **FB 440-840**



Stroke Sander
F 2000, F 2501

SANLIK

23 Church Square TODDINGTON
NR. DUNSTABLE BEDS LU5 6AA

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