

FELDER

is systematic

Increased performance with 6-fold combined

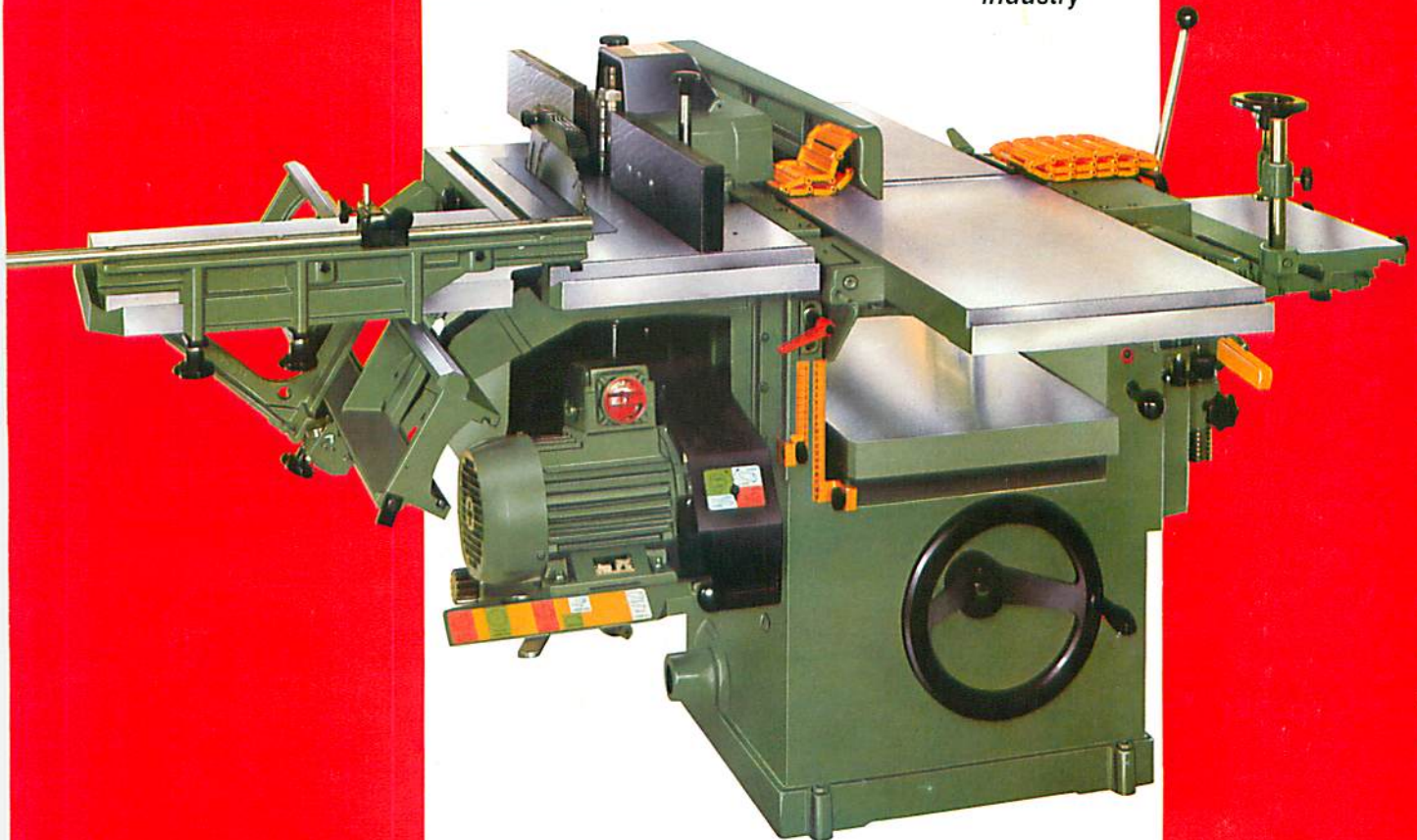
UNIVERSAL- PLANING MACHINE

extensible to 14 combinations

TYPE **BU 8 - FK 31**
BU 8 - FK 41

1. Planing
2. Jointing
3. Thicknessing
4. Circular sawing
5. Moulding
6. Mortiser
7. Sliding table

well-known
reliable
popular with
d.i.y. enthusiasts
home joiners
farmers
craftsmen
and in the
industry



- Precision and quality through machine casting design
- Efficient working through the FELDER operating system
- Easily transportable through ideal construction
- Economical through performance, high durability, perfection

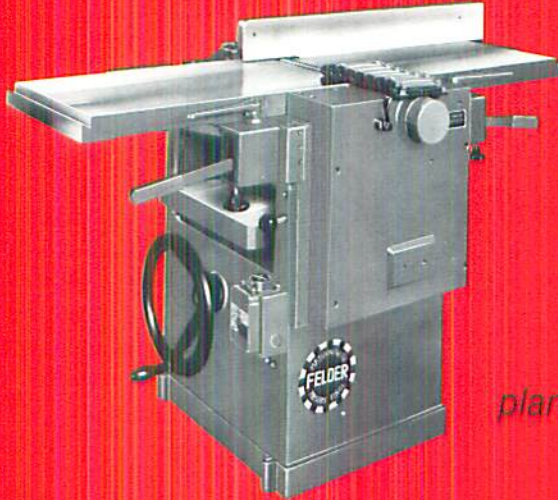
JOHANN FELDER

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Postbox 8, Austria, Telephone 0 52 23 / 61 54, 62 73, Telex 05-3903

FELDER

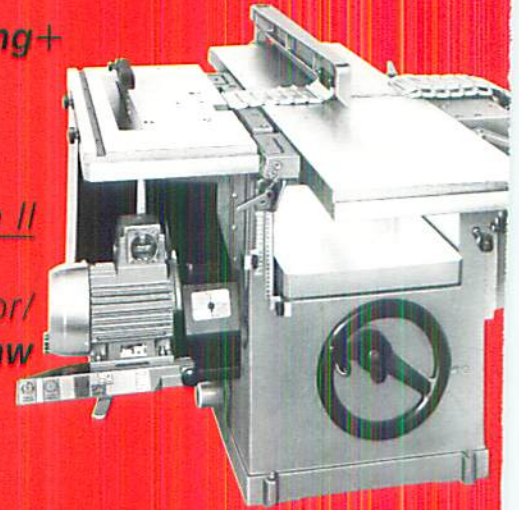
is systematic

The FELDER-combining system offers dual standard equipment extending to an 11-fold combination



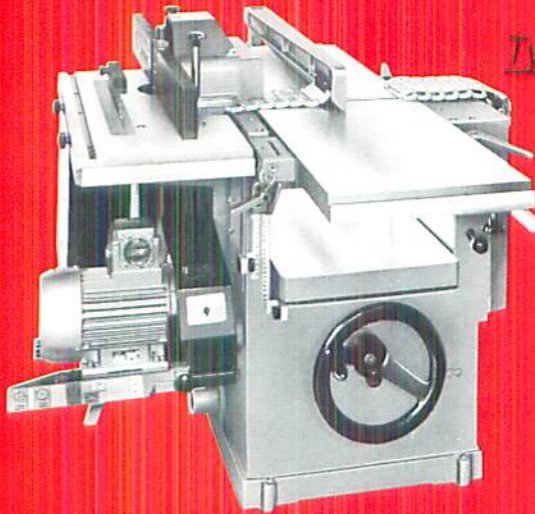
Type I

**planing+thicknessing+
motor**



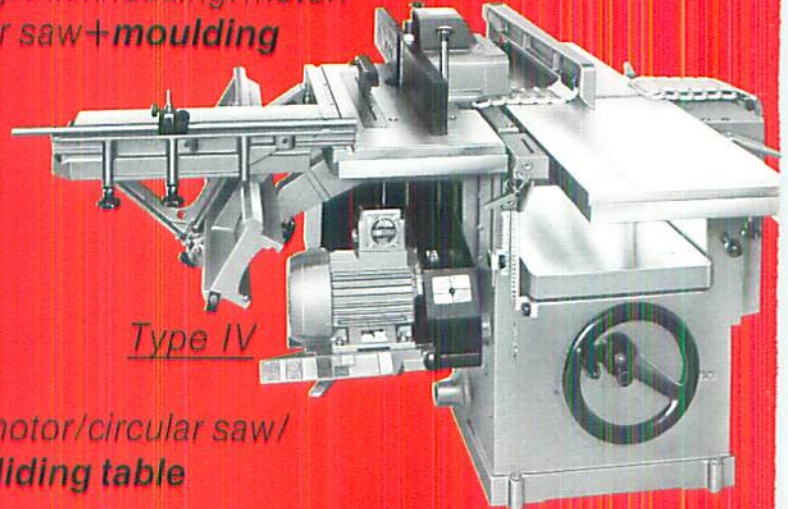
Type II

**planing/thicknessing/motor/
+circular saw**



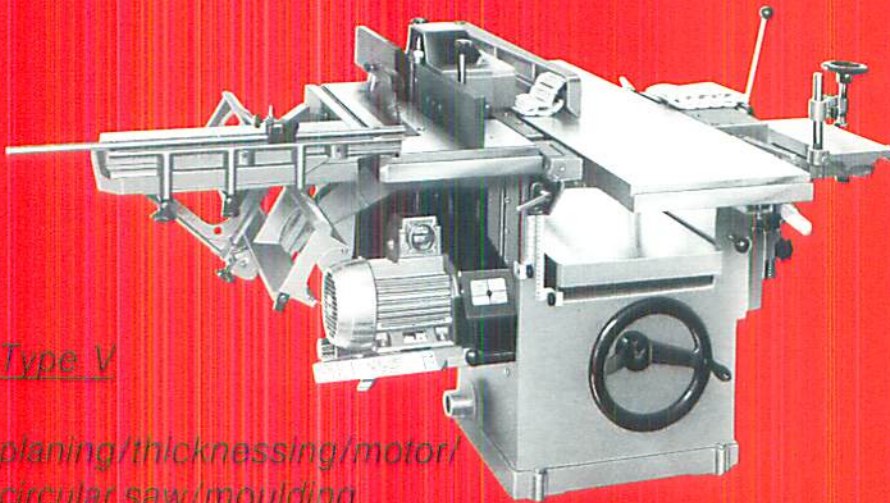
Type III

**planing/thicknessing/motor/
circular saw+moulding**



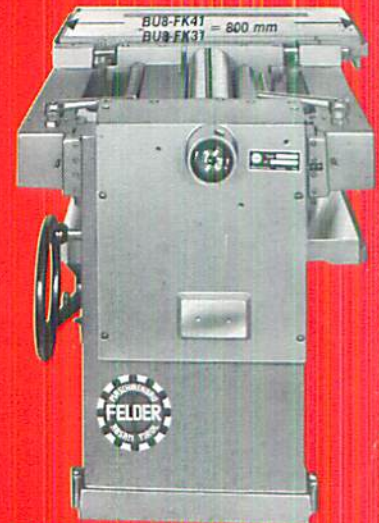
Type IV

**planing/thicknessing/motor/circular saw/
moulding+universal sliding table**



Type V

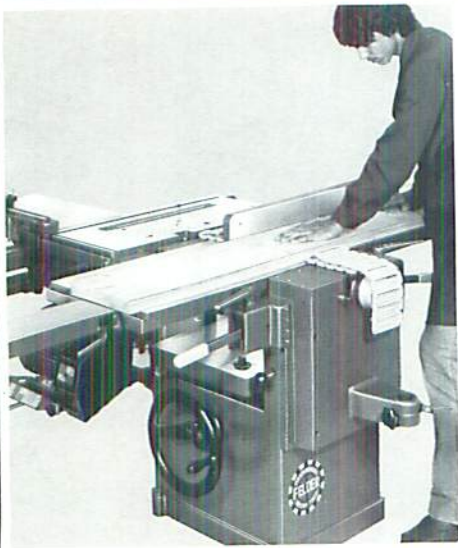
**planing/thicknessing/motor/
circular saw/moulding
universal sliding table
+boring device**



Transportation size

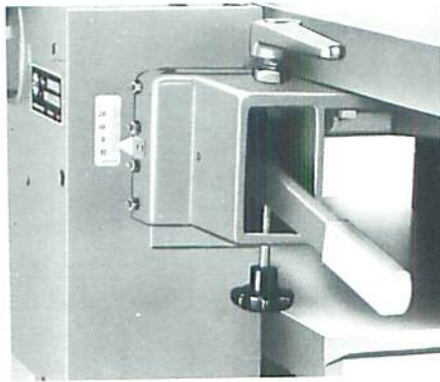
STANDARD EQUIPMENT OF MACHINE

Planing



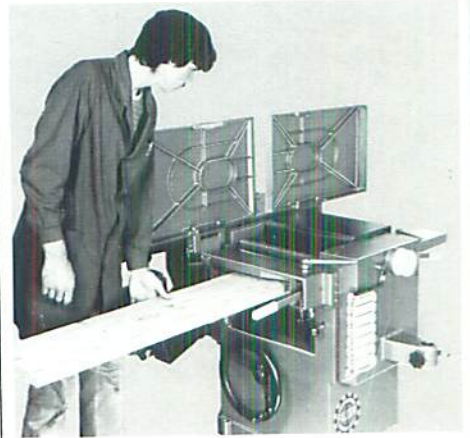
... is planing the rough surface of wood smooth, level or straight. The work-piece width can be as wide as the table width. With narrow work-pieces the unused part of the circular cutter head can be covered with a folding protection. On request a table extension can be mounted; this is charged separately.

Adjusting the thickness of chips



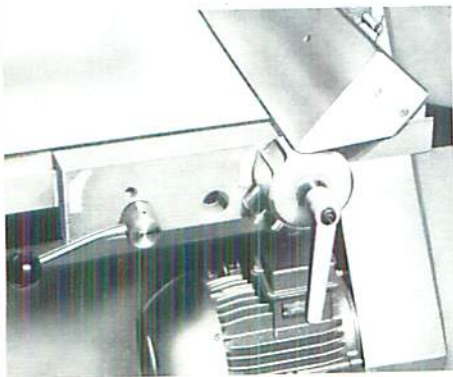
By operating the hand lever of the quick-action height adjustment of the feeding table, it can be adjusted how many mm of the work-piece are to be planed off. By adjusting the star-knob screw the thickness of chips can be adjusted with a degree of accuracy of a 10th mm according to the scale.

Thickening



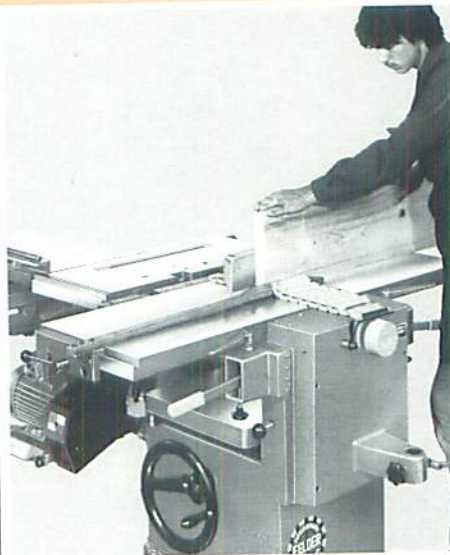
... is parallel planing of a plank or beam to a special board or thickness. You can fold out the planing table after releasing the table-locking. The folded-out tables are automatically secured. The circular cutter head is covered by a thickening hood. This hood guarantees protection and a concentrated chip-ejection.

Jointing with planing machine in oblique position



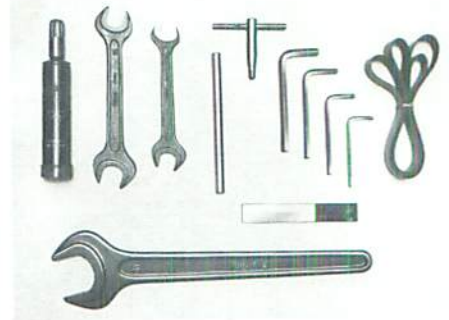
The planing fence can be mounted at every position on the planing table. The patented single-lever quick-action adjustment guarantees a precise oblique positioning of the fence from 90° to 45° according to angle-scale.

Jointing with 90° planer fence position



is working on the working edge of the wood. This is necessary if several planks are glued together to an increased width.

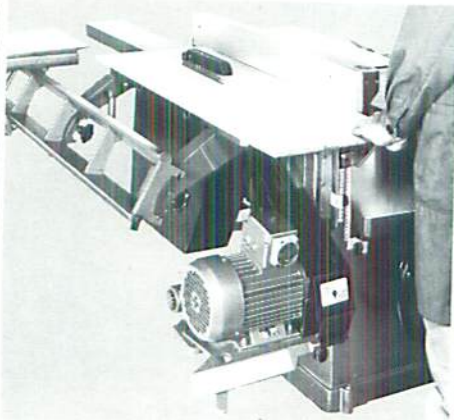
Operation tools of machine



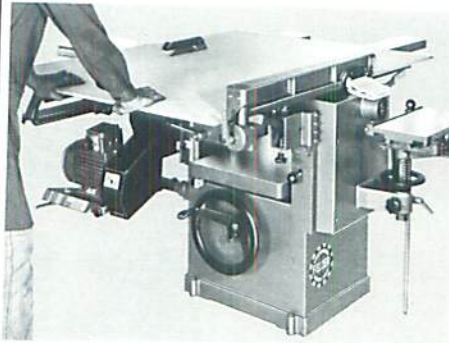
- 1 drive belt 1240×30×1
- 1 pair of planing knives mounted into mandrel
- 1 piece double-ended spanners: 13/17, 19/22 and 41 mm
- 1 socket pin 10 Ø
- 1 knife-setting attachment
- 1 thickening mandrel protection
- 1 piece inbus-spanner 4, 6 and 8 mm
- 2 pieces joint-protection for the dressing circular cutter head
- 1 boring-head spanner

STANDARD EQUIPMENT OF MACHINE

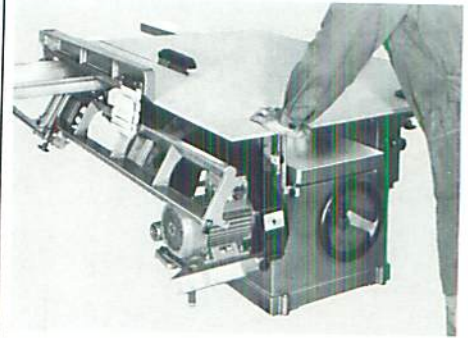
Circular sawing



Circular sawing table with screwing spindle, height-adjustable according to measuring scale and sliding index. Sliding index movable because the height over the table varies according to blade \varnothing . The circular sawing mandrel is positioned separately, if the saw is running, the planing mandrel is at standstill. Circular sawing mandrel with clamped blade can be swivelled aside. When operating the planing fence at the circular sawing table, cutting parallel from a scale of 0 to 170 mm wide is possible. Fixing the table extensions on the circular sawing table is possible at an additional price. See further pictures.



The fence on the planing table is adjusted and slid forward for cutting width from 170 to 820 or 720 mm respectively.



If the cutting width is not sufficient on the right side of the fence, the sawing fence can be adjusted left of the sawing blade on the sliding table. A big advantage when cutting plates.

Moulding · Tenoning · Rabbeting

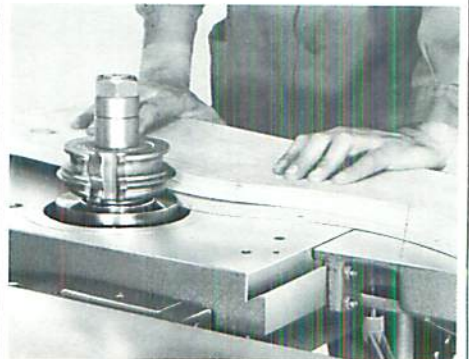
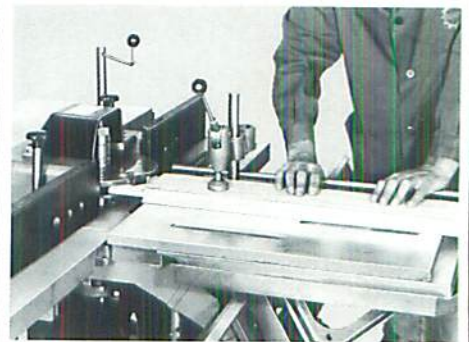
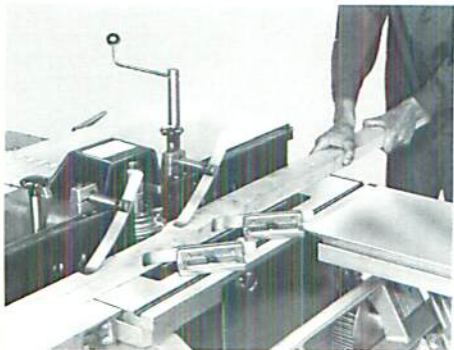


The moulding spindle, which is in a sturdy bearing, works at two speeds 4000 and 6000 rotations/min.; tools with 250 mm \varnothing max. and a depth of jaw of 130 mm, such as tenoning and slotting disc etc. can be used. The moulding height adjustment is operated by the height-adjustable circular sawing table. Within seconds the moulding spindle can be removed vertically, with or without clamped in tools. This system saves the time-consuming clamping and unclamping of cutting tools when readjusting from moulding to sawing.

Thus cutting devices remain in the moulding spindle and are only exchanged if needed. See adjacent pictures:

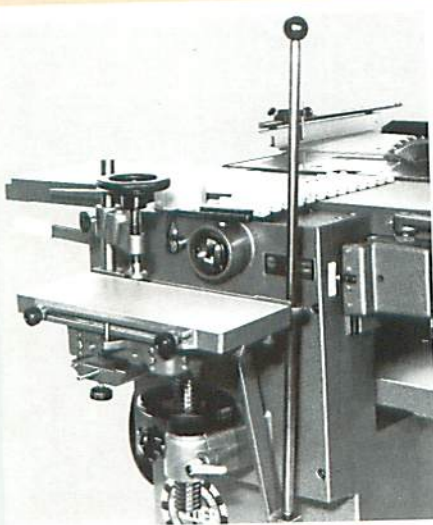
On request different tools can be mounted at an additional price.

- profile tools
- moulding with contact pressure feathers
- tenoning and slotting with slotting discs
- moulding of curved profiles by adjusting the driving ring

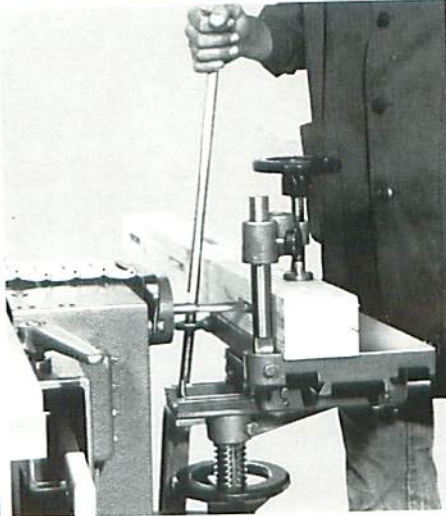


STANDARD EQUIPMENT OF MACHINE

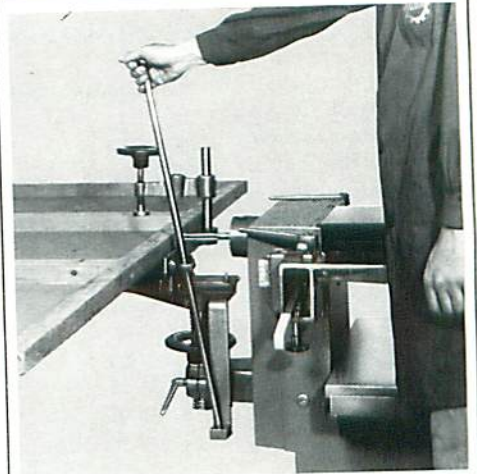
Slot Boring · Mortiser



The boring head is mounted on the planing handrel with a protection ring. When not used the end face is covered with a plastic hood to prevent accidents. The sturdy boring support is ball-bearered in all working directions. Equipped with length and depth stops.

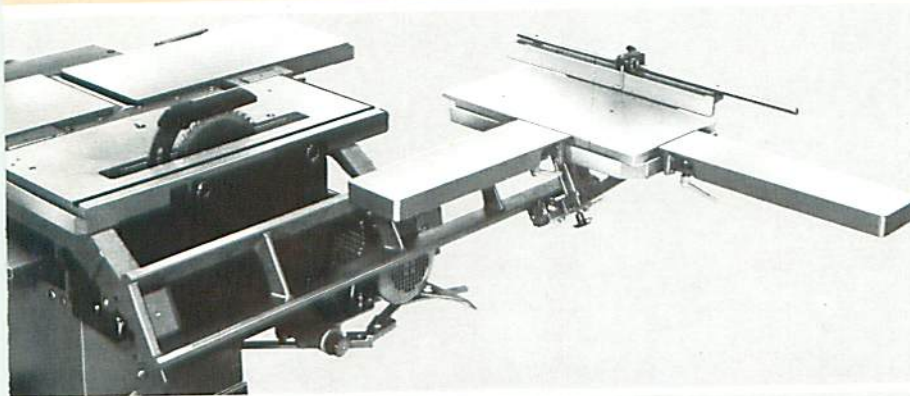


Ideal: single-hand lever operation. Allows comfortable and quick operation at optimum visibility.



Single-hand lever operation is especially advantageous when working on large surfaces. After folding out the planing table you can stand opposite the support, which allows optimum visibility when boring.

Sliding table

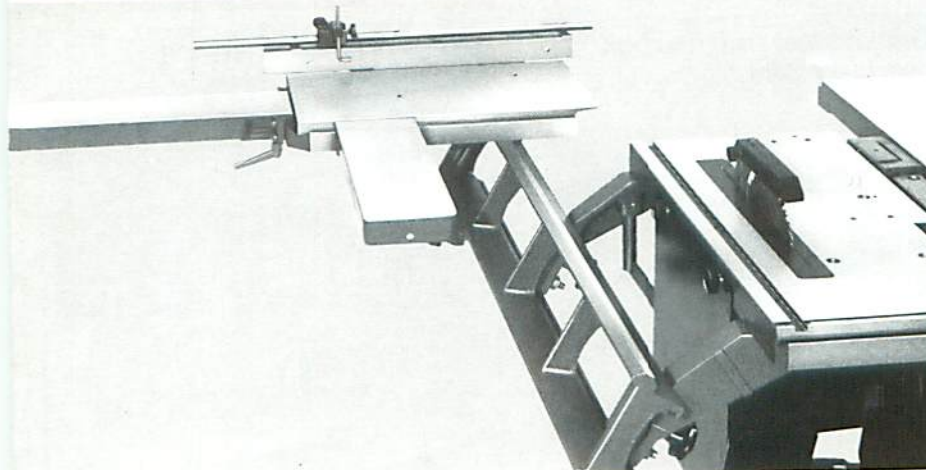


At the sliding table, 90° fence on the pushing face with forward guide-way. On request: Mounting of table extension at an additional price.

The universal sliding table is equipped with guideways on 3 sides, which make the mounting of table extensions possible. The precision milled sliding table guide-way is positioned with the ball-bearing guiding rollers on the circular sawing table supports, so that the guide-way can be pushed back and forth quickly and easily. If the 90° fence is on the pushed side of the table and the guiding-arm is in forward position, the cross-section length is 745 mm.

If the 90° fence is on the pushed side of the table and the guiding-arm is pushed backward, the cross-section length is 1000 mm.

Simultaneously, when circular sawing the working side is not impeding through the protruding guide-way.



At the sliding table 90° fence on the pushed side with the guide-way positioned towards the machine.

On request at an additional price: mounting of extra-table mounting of 45° fence.

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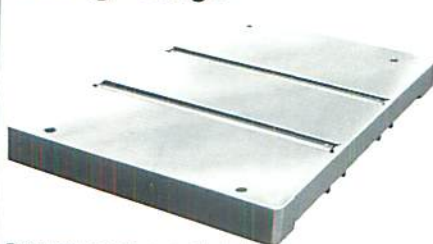
The FELDER-combining system offers dual standard equipment extending to an 11-fold combination

TECHNICAL DATA

	TYPE BU8FK41	TYPE BU8FK31
planing width of circular cutter head max.	410 mm	310 mm
chip removal with planing	0-4 mm	0-4 mm
planer fence adjustable with single hand lever from circular cutter head Ø	90°-45°	90°-45°
number of knives standard type	100 mm	100 mm
number of knives by request	2	2
rotation speed of circular cutter head	4	4
opening width with planing	4500/3200 R/min.	4500/3200 R/min.
thicknessing depth max.	410 mm	310 mm
thicknessing depth min.	190 mm	190 mm
chip removal with thicknessing max.	3 mm	3 mm
automatic feeding speed	5 mm	5 mm
motor power 3×380V 50 Hz IP54	9 m/min.	9 m/min.
motor power on request 3×380V 50 Hz IP54	2,2 kW = 3 h.p.	2,2 kW = 3 h.p.
total length of planing table (extensible)	3,0 kW = 4 h.p.	3,0 kW = 4 h.p.
circular saw running in separate bearings from planer mandrel	1370 mm	1370 mm
spindle diameter of circular saw mandrel standard	4500/3200 R/min.	4500/3200 R/min.
spindle diameter of circular saw mandrel on request	30 mm	30 mm
circular saw blade diameter min. - max.	25 mm	25 mm
depth of cut max.	150-300 mm	150-300 mm
circular sawing table height adjustment max.	100 mm	100 mm
max. cutting width with fence	105 mm	105 mm
moulding spindle	0-820 mm (1180 mm)	0-720 mm (1080 mm)
moulding spindle diameter standard	4000/6000 R/min.	4000/6000 R/min.
moulding spindle diameter on request	30 mm	30 mm
table opening with 3 rings max.	25 mm	25 mm
circular sawing and moulding table size	170 mm	170 mm
circular sawing and moulding table length with table extension	357×800 mm	357×800 mm
moulding spindle - clamping range	1800 mm	1800 mm
two-jawed bore chuck, depth of jaw	130 mm	130 mm
boring support in 3 motion levels, singlehand lever operation	0-16 mm	0-16 mm
height adjustment of boring support	ball-bearing	ball-bearing
boring depth with fence max.	110 mm	110 mm
boring length with fence max.	150 mm	150 mm
universal sliding table with 90° fence and cross fence	220 mm	220 mm
universal sliding table on 3 table sides with guide-ways for mounting:	12-fold ball-bearing	12-fold ball-bearing
cutting length of the sliding table on sliding	table extensions	table extensions
cutting length of the sliding table on pushing	745 mm	745 mm
special cutting length of sliding table with extra table	1000 mm	1000 mm
total height of machine	1100 mm	1100 mm
total size of machine at lorry or rail packing l×w×h	820 mm	820 mm
transportation width without packing max. and min.	1330×980×1030 mm	1330×980×1030 mm
net weight of machine	800 or 700 mm	800 or 700 mm
weight of lorry standard machine packing	650 kg	595 kg
weight of seaworthy box	50 kg	50 kg
exterior measurements of seaworthy box	145 kg	145 kg
	1110×1390×1230 mm	1110×1390×1230 mm

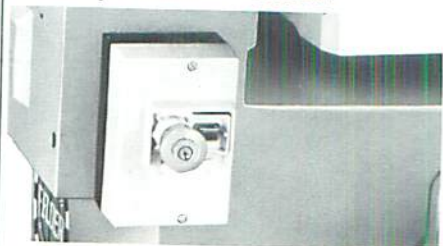
MACHINE EQUIPMENT ON REQUEST

Thicknesser with two ball bearing rollings



Frequent use of wood with high moisture and resin content makes the use of lower table rollings advantageous. The under table rollings are extensible after releasing the quick-action locking. This guarantees cleaning without problems.

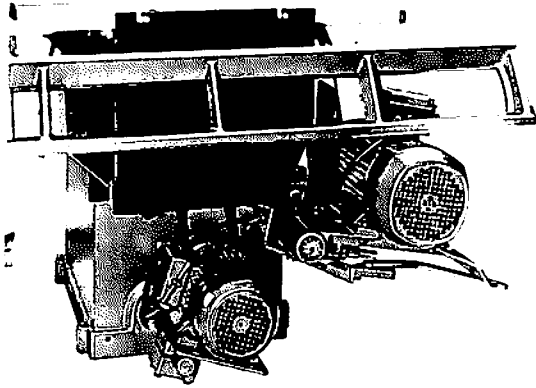
Motor-protection switch



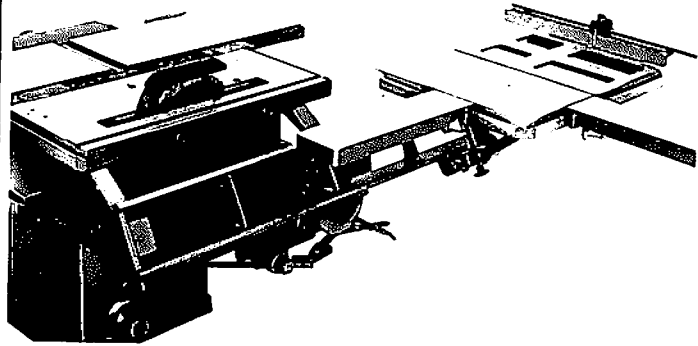
In order to protect your motor-machine, a multi-function protection switch is mountable on the machine on request. This switch fulfils the following functions: motor protection, emergency switch off by push button key, locking by key and under-voltage release (part of standard equipment in FRG).

MACHINE EQUIPMENT ON REQUEST

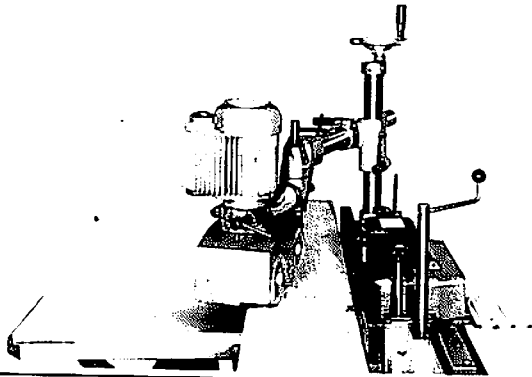
Planing mandrel with separate motor-drive



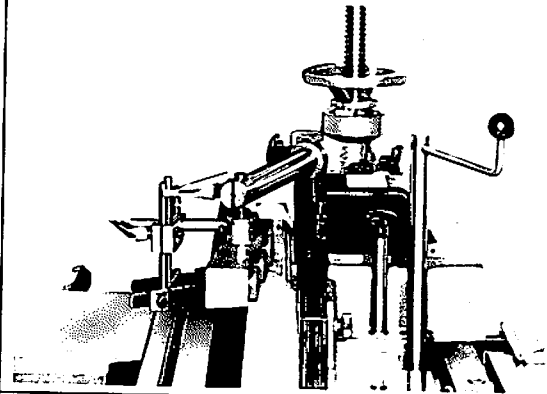
Universal-sliding table with extra table and table extension for achieving big cross-cutting length.



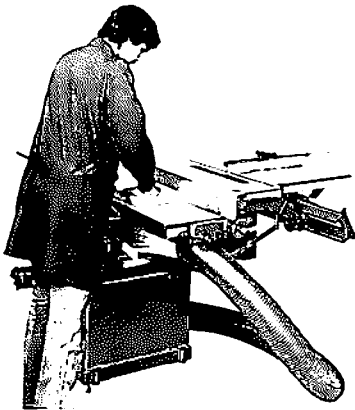
Mounting of an electro-motor-driven feeding equipment provides safety.



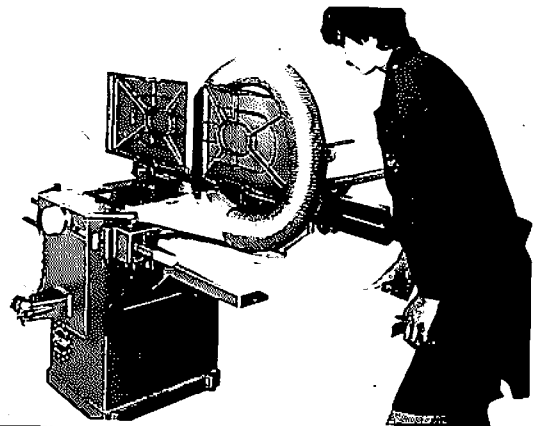
Manual roller-pressure-attachment provides safety.



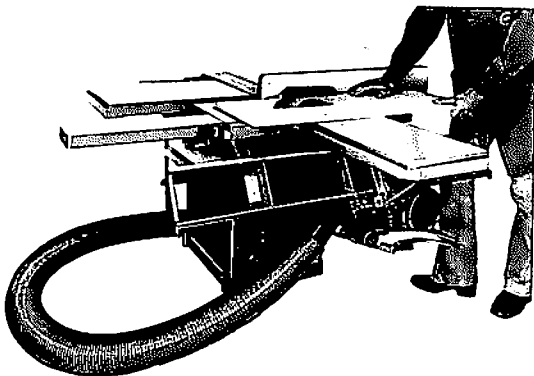
Planing exhausting device



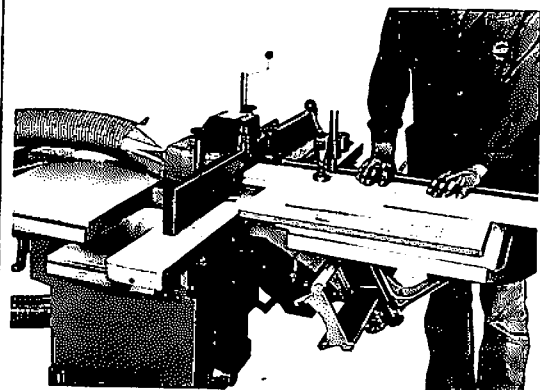
Thickening exhausting device



Circular sawing exhausting device



Milling-spindle exhausting device

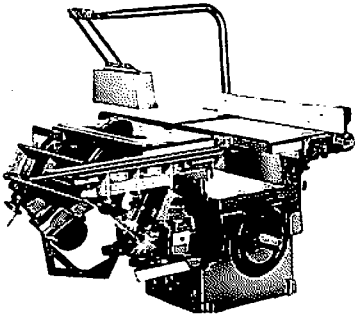


FURTHER MACHINE COMBINATIONS ON REQUEST

Sawing blade tilt

After releasing the tilting lever the sawing-blade can be adjusted and fixed in any oblique position from 90° to 45° with a quick and simple hand-movement. The circular saw is driven by its own 3 h.p. motor 3×380V. By a hand-wheel the sawing-blade is 100 mm height-adjustable over the screwing spindle, with an accuracy of 10" of a mm, max. blade diameter = 300 mm.

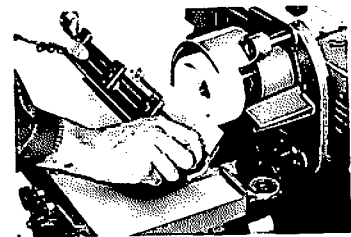
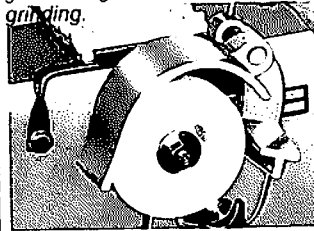
FELDER IS SYSTEMATIC, the sawing-blade tilt no. 18-74 can be mounted on our machine types BU8FK31 and BU8FK41 and KFS31 immediately or later. Sawing-blade tilt – ideal for furniture making and architecture. In the FRG circular sawing suva protection 18-73 is required.



Grinding of tools and planing-knives

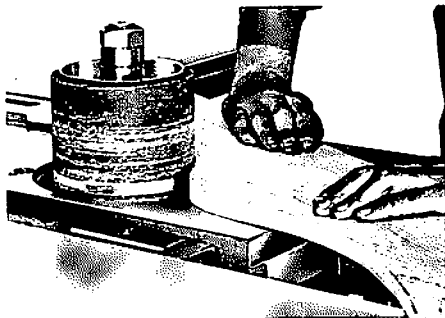
The grinding fixture with grinding wheel is clamped at the boring feed, and the grinding protection hood is mounted. The planing knife is fixed in the grinding saddle, adjusted onto the support table and moved back and forth for the grinding. The support fence edge functions as a guide and guarantees a precise grinding.

The grinding fixture with tool grinding disc is clamped at the boring feed, grinding rest and protection hood are mounted, and the grinding of iron parts and tools can be carried out. The grinding equipment can be mounted and removed within seconds.



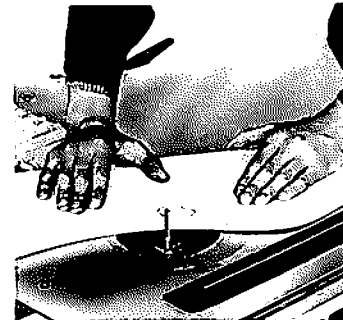
Sanding with Bobbin Sander

For sanding of arched and straight parts, sanding of 45 O – 140 O can be clamped to the milling spindle in upright position.

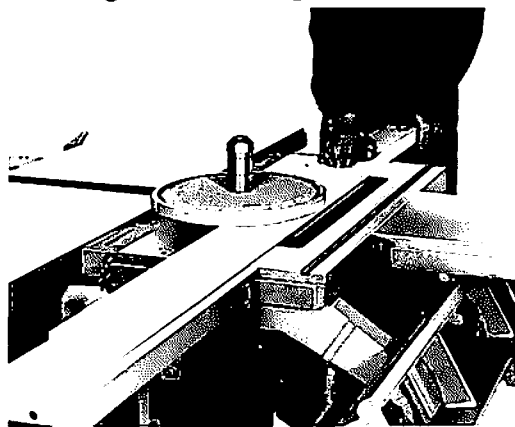


Milling-sanding with boring head spindle

Instead of a milling spindle a milling spindle with boring head can be mounted for accommodation of mounted points and shank type cutters for working out small milling radii.

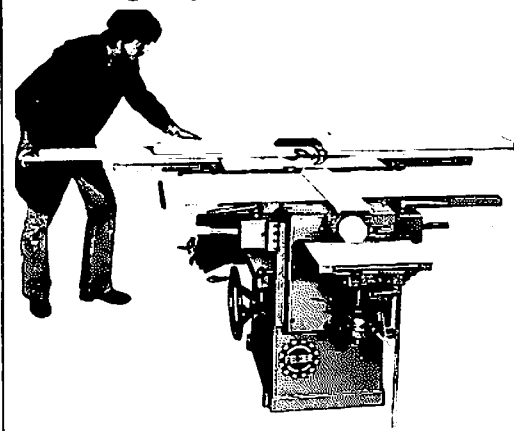


Sanding with sanding disc



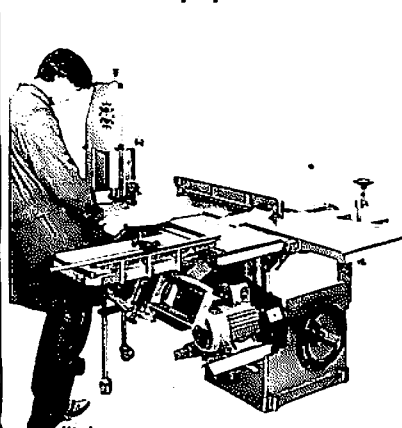
With the milling spindle in upright position a sanding disc to 300 mm O max. can be clamped in for smooth and even sanding of window, door and furniture parts.

Trimming of planks



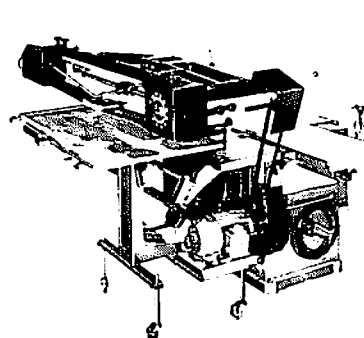
With the help of a trimming rail, which is mounted to the trimming runner board, planks can be cut straight.

Band-saw equipment



The band-saw, which is mounted on a gantry, is connected to the planing machine, ready for use within 30 sec.

Belt-sanding equipment



Within 30 sec. the belt-sanding equipment, which is mounted on a gantry, is attached to the planing machine, ready for use. Removal within seconds – requires little space. Height adjustment of runner-board 120 mm; sanding width 600 mm max.; after turning over of work-piece 1200 mm; sanding length unlimited; sanding-blade size 3430×120 mm, length of drive-belt 1940×30×1.