B3

Saws & Spindle Moulders – the professional 2-in-1 solution

EUK

For the professional, discerning user

Solid wood

Panel material

In choosing the B3, you are opting for a saw-spindle moulder in a class of its own!

The quick and comfortable change-over between functions, the precise settings, the amazing specification included in the comfort package, the tiltable spindle moulder and precise cuts with the Hammer format sliding table: This is how we define the performance, for the professional, demanding woodworker.

Variations
Models & Your Advantages

B3 basic

- Cutting length: 800mm
- Cutting width: 700 mm
- Cutting height 103 mm
- Table opening 180 mm
- Spindle moulder fence for tools Ø max. 220 mm
- MF spindle system (optional)

B3 winner

- Cutting length: 1,300–2,050 mm
- 800 mm rip capacity
- Cutting height 103 mm
- Table opening 180 mm
- Spindle moulder fence for tools Ø max. 220 mm
- MF spindle system (optional)

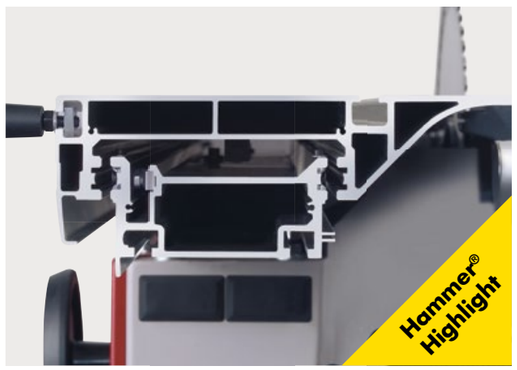
B3 winner comfort

- Cutting length: 2,050 mm
- 800 mm rip capacity
- Cutting height 103 mm
- Table opening 180 mm
- Spindle moulder fence for tools Ø max. 220 mm
- MF spindle system (optional)

B3 perform

- Cutting length: 2,500 mm
- 800 mm rip capacity
- Cutting height 103 mm
- Table opening 180 mm
- Spindle moulder fence for tools Ø max. 220 mm
- MF spindle system (optional)

The most important highlights at a glance



The aluminium sliding table, the heart of every panel saw
The aluminium sliding table gives the precision from the first cut. Guaranteed Hammer stability and precision: the strong ribbed, milled and anodised aluminium hollow-chamber profile of the sliding table in combination with the high quality guiding system ensures maximum accuracy and precision!

Circular saw blade and moulder spindle tiltable from 90°-45°

MF Spindle shaft quick change system
Without losing any settings, just a few turns of your hand allows you to swap spindles of varying diameters.

Hammer – Decision making reliability for many years to come

Durability, functionality and reliability made in Austria – Hammer woodworking machines are top-quality products from Felder. Since 1997, Hammer has been producing high-quality yet affordable woodworking machines for the skilled trades and crafts. The models have been specifically designed for this customer group and are available in the basic, winner and perform configuration, offering price optimised solutions for every requirement. Decades of experience building machines, Austrian craftsmanship, strict quality standards and tried and tested Felder system solutions, guarantee excellent woodworking machines, the best operating results and customer satisfaction for years to come. From the passionate woodworker to the business user with high demands, with machines from Hammer you are guaranteed reliability and precise woodworking.

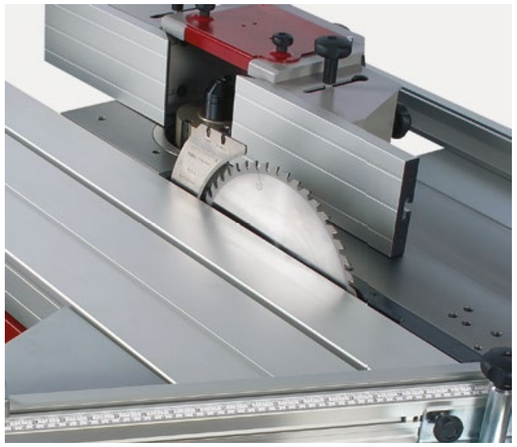
… why you should decide on a Hammer machine now:

- Excellent value for money
- Decision making reliability for many years to come
- State of the art machine technology
- Solid cast iron tables and units
- High quality, unique detail solutions as part of the standard package
- Top quality manufacturing with strict quality guidelines
- User friendly
- Classic design
- Quality and precision from AUSTRIA
- Compact functionality
- Mobile as an option
- Minimal space requirement
- Quickest changeover times

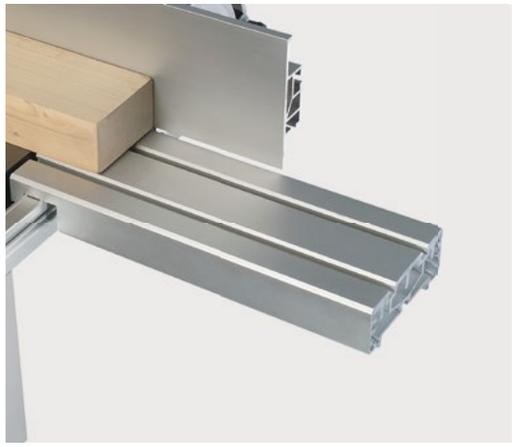
EUK

Details that convince

Outrigger table
The solid outrigger table with enlarged support surface and generously dimensioned telescopic crosscut fence enables you to precisely perform panel cuts, format cuts and cross cuts of unlimited workpiece dimensions.



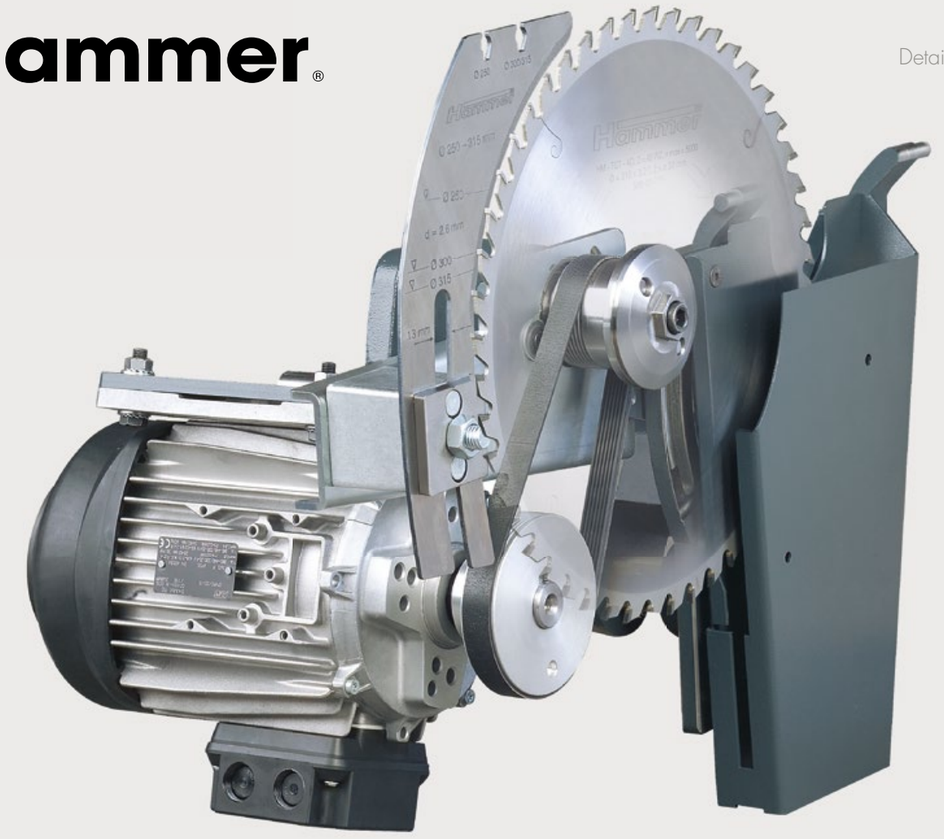
The Hammer saw/spindle table, made from solid cast iron
Totally vibration-free and therefore absolutely precise when sawing and moulding – the saw/spindle table made from solid cast iron has strong ribbing and is completely torsion-resistant. The table opening of 180 mm diameter makes it possible to use large diameter tools below the table surface level.



As and when required: Adapt the table size to the workpiece dimensions
Processing long and heavy workpieces without assistance – no problem with a Hammer! The Hammer table extension system, which has been tried and tested worldwide a thousand times over, allows you to assemble table extensions without tools in just a few steps. The support surface can be extended by 400 or 800 mm on each side of the working table. This means an extension of your table length by up to 1600 mm!

Stability and operating smoothness – the Hammer spindle moulder unit
High precision with standard moulding work or use of heavy tools – The Hammer spindle moulder unit guarantees extreme smoothness and precision. The spindle diameter is 30 mm. The ergonomically laid out operating elements and the smooth tool change convinces with every application, day after day. Four well spaced, selectable speeds, 3000/6000/8000 and 10,000 rpm, cover the optimum speeds of various different spindle tool diameters. An important detail is standard with Hammer: the forward and reverse run of the spindle for your safety when moulding.

Hammer®



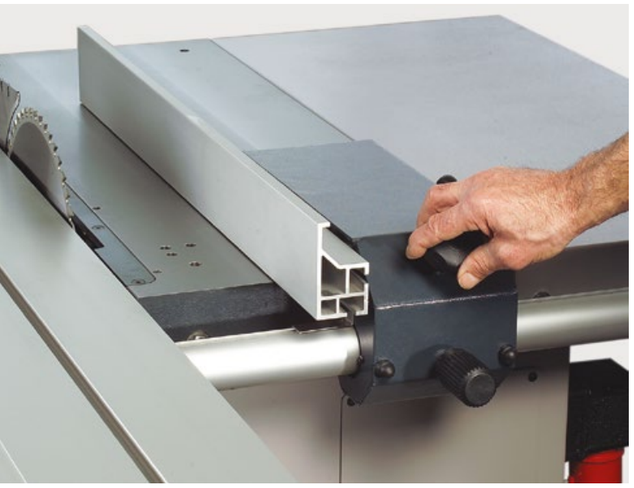
Stable-compact-precise, the Hammer saw aggregate
The Hammer saw aggregate impresses with smoothness, precision and extreme user friendliness. The large cutting height of 103 mm leaves nothing to be desired. Saw blades with up to 315 mm diameter can be lowered completely below the level of the saw table. The saw blade is simple to access and can be changed with ease.

Grooving, slot and tenoning with the saw
Every hammer panel saw can be equipped with a prepartion for the use of specialised dado tooling. The dado tool can be fitted to the saw arbour and makes it possible to make various width grooves, tenons and slots of between 8 and 19.5 mm in width.

Scoring unit for laminated workpieces
The scoring unit ensures chip free cuts in laminated workpieces. The cutting width of the two part scoring blade can be adjusted accurately to the tooth width of the main saw blade using a ring set. The drive of the scoring blade is done mechanically, with it rotating in the opposite direction to the main saw blade.

Saw blade tilt 90°–45°
The continuously variable tilt range between 90° and 45° ensures precise mitre cuts. End stops at the 90° and 45° position ensure the exact positioning of the settings. A large scale allows precise positioning and easy read-out of the corresponding values.

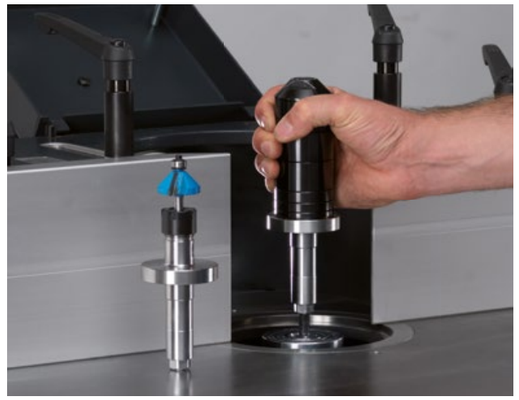
Rip Fence (basic)
The cutting width on the saw table can be adjusted to any position between 0 and 700 mm. The scale that is integrated into the rail ensures the exact setting of the aluminium rip fence to the position required. The aluminium fence can be positioned in any position along the cutting direction – when processing long workpieces you get a better feed of the workpiece and ensure a high processing precision. When carrying out angled cuts with a tilted saw blade it is possible to move the fence from the horizontal to the flat position. The narrow fence edge then enables the rip cutting of very thin workpieces. An even more precise, tenth of a millimetre accurate setting of the aluminium rip fence can be achieved with the optional Hammer fine adjustment.

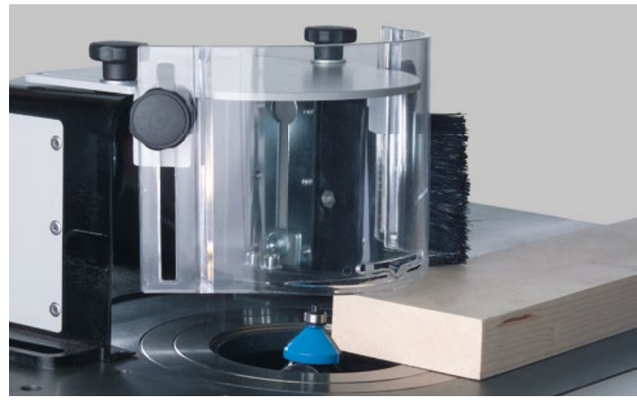


Rip Fence on the saw table (winner)
The cutting width on the saw table can be continuously adjusted to any position between 0 and 800 mm (0–1250 mm). The scale that is integrated into the rail ensures the exact setting of the aluminium rip fence to the position required. The aluminium fence can be positioned in any position along the cutting direction - when processing long workpieces you get a better feed of the workpiece and ensure a high processing precision. When carrying out angled cuts with a tilted saw blade it is possible to move the fence from the horizontal to the flat position. The narrow fence edge then enables the rip cutting of very thin workpieces. An even more precise, tenth of a millimetre accurate setting of the aluminium rip fence can be achieved with the optional Hammer fine adjustment.

Industrial Saw Rip Fence (option)
The professional rip fence, which runs on a chrome-plated round steel guiding bar, is extremely smooth and easy to operate. Precise settings with quick and fine adjustment.

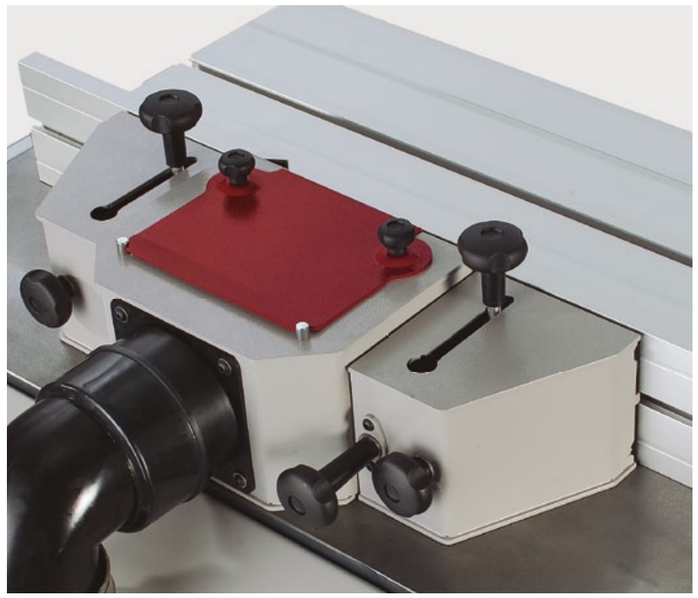
Moulder spindle
The standard: Moulder spindle-Ø 30 mm for standard moulding tools. Ideal for all "classic" moulding work. The high-performance milling spindle guarantees excellent results at every angle regardless of the material.

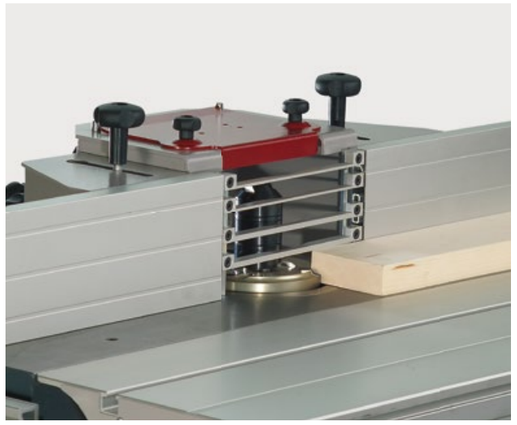




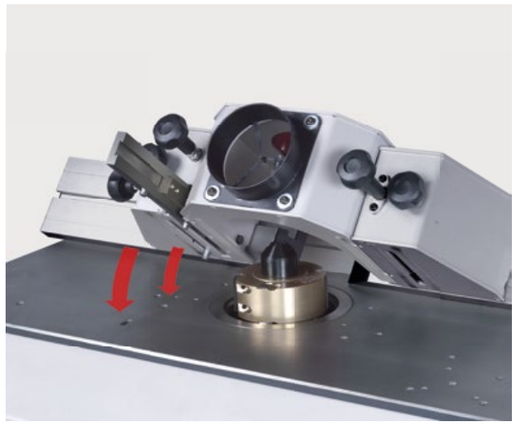
MF Spindle shaft quick change system
Without losing any settings, just a few turns of your hand allows you to swap spindles of varying diameters.

Spindle fence: simple handling, maximum safety and precision
The Hammer spindle fence is suitable for tools with a diameter up to 220 mm. Both of the anodised aluminium fences can be easily set to the spindle moulder tool diameter being used. The adjustment for the depth of cut when moulding can be made on the outfeed fence plate with a range of –5 mm to +25 mm. The extraction connection diameter for the chip extraction on the fence is 120 mm. As an option, safety bars can be fitted into the aluminium fence for a continuous surface support and offer even more safety when moulding.

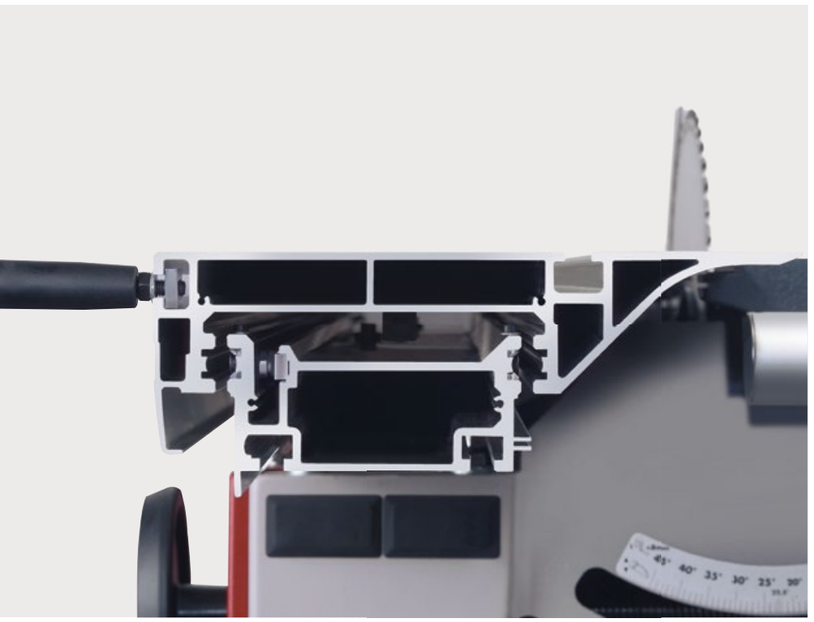




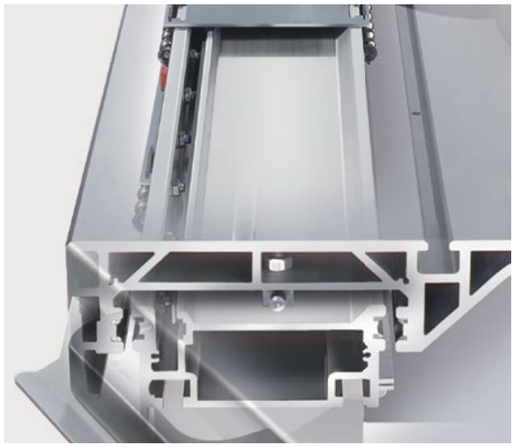
Safety Bar Guides
The safety bar guides, great for "end-grain" work (optional).



The MULTI-fine adjustment system
Professional equipment: spindle fence "220" for max. tool ∅ of 220 mm, MULTI adjustment system for spindle fence "220" for parallel alignment and quick adjustment.



The aluminium sliding table, panel saw
The aluminium sliding table gives the precision from the first cut. Guaranteed Hammer stability and precision: the strong ribbed, milled and anodised aluminium hollow-chamber profile of the sliding table in combination with the high quality guiding system ensures maximum accuracy and precision!

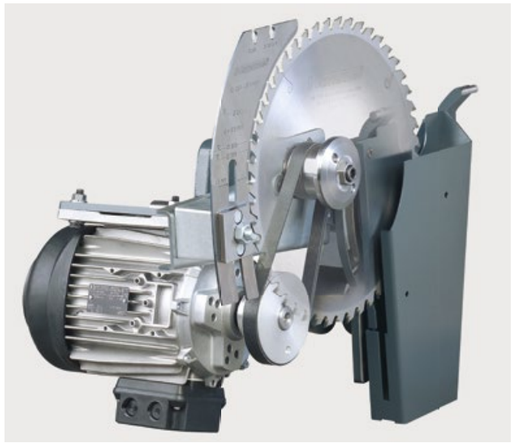


Format sliding table
The "perform models" are constructed for maximum load bearing capacity and equipped with an industrial sliding table. The smooth precision guiding system guarantees absolute precision when cross cutting, rip cutting and formatting.

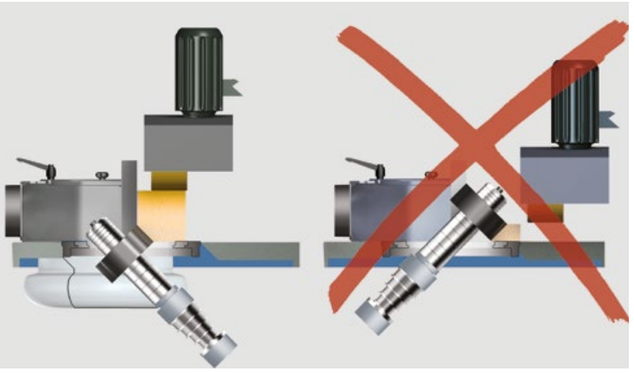
Outrigger table for heavy workpieces
The outrigger table provides additional surface support and precision when processing large dimensioned and heavy workpieces. In combination with a 900 or 1300 aluminium crosscut fence and the crosscut extension your Hammer with outrigger table becomes a complete, large panel saw.

Locking pin
Angles at 5 degree intervals and at 22.5° can be cut with the help of the index locating pins.

Crosscut fence for precise mitre cuts
Adjustable to any position between +45° and –45°, the crosscut fence ensures precise angled and mitre cuts. A scale integrated into the aluminium sliding table makes it easy to set precisely. The end stop for the 90° position guarantees absolute precision with repeat settings. The scale on the 900 mm long aluminium crosscut fence is angled towards the operator and makes it easy to comfortably read the exact setting. In combination with the crosscut stop with integrated magnifying glass, highly precise settings and as such absolutely exact results are guaranteed.



Strong motors – Optimal power transmission
The power transmission of the motor power to the saw arbour or moulder spindle is achieved using large dimensioned Poly-V belts and counter surface. The surface area which is increased due to the V shape of the drive belt on the pulley increases the grip and ensures an almost perfect transmission of power from the motor to the saw arbour and moulder spindle.



The Felder rearward tilting Spindle is the correct way for easy and safe operation:
» Working safely
» Suitable for any workpiece size
» Problem-free power feeder application
» Impeccable workpiece finish
» Optimal chip removal

Minimal space requirement – mobile in every workshop
Hammer woodworking machines are an absolute spacial wonder. The efficient machine design of a Hammer means that space can be found in even the smallest of workshops. As an option a rolling carriage can be fitted to every Hammer, offering mobility and freeing up additional space.

Technical specifications

Electrics		B3 basic	B3 winner	B3 winner comfort	B3 perform
001	3x 400 V motor voltage	S	S	S	S
002	3x 230 V motor voltage	-	O	O	W
003	1x 230 V motor voltage, motor power 4.0 HP (3.0 kW) S6/40%	O	O	O	O
004	50 Hz motor frequency	S	S	S	S
005	60 Hz motor frequency	W	W	W	W
007	Motor power 4.0 HP (3.0 kW) S6/40%	S	S	S	-
008	Motor power 5.5 HP (4.0 kW) S6/40 %	-	O	O	S
11	Forward and reverse run	S	S	S	S
Saw Unit					
74	Mechanically driven scoring unit Ø 80 mm	O	O	O	O
75	Electrically driven scoring unit, motor power 1.0 HP (0.75 kW)	-	-	-	O
76	Variable rip capacity	0–700 mm	0–800 mm	0–800 mm	0–800 mm
77	Variable rip capacity 1250 mm	-	O	O	O
78	Rip capacity 800 mm with full table width	-	O	O	O
82	Dado capability for tooling up to ¾" (19.5 mm) width	O	O	O	O
83	Rip fence basic	S	-	-	-
84	Rip fence winner with round guiding bar	-	S	S	S
85	Fine adjustment of the rip fence winner/basic	O	O	O	S
86	Professional machine cast saw fence, cutting width 800 mm	-	O	O	O
87	Professional machine cast saw fence, cutting width 1250 mm	-	O	-	O
88	Fine adjustment of the professional rip fence	-	O	O	O
–	Main saw blade Ø 250–315 mm, saw blade rotation speed 4800 rpm	S	S	S	S
–	Saw/spindle moulder table	860 x 300 mm	950 x 385 mm	950 x 385 mm	950 x 385 mm
–	Saw blade tilt 90°– 45°, max. cutting height 103 mm	S	S	S	S
Spindle moulder unit and spindle fence					
100	Moulder spindle -Ø 30 mm, 100 mm Nutzhöhe100 mm maximum above table operating height	S	S	S	S
101	MF spindle system – Changeable Ø 30 mm spindle shaft, 100 mm useable height	O	O	O	O
102	MF spindle system – Changeable Ø 32 mm spindle shaft, 100 mm useable height	O	O	O	O
103	MF spindle system – Changeable Ø 35 mm spindle shaft, 100 mm useable height	O	O	O	O
104	MF spindle system – Changeable Ø 1¼" spindle shaft, 100 mm useable height	O	O	O	O
105	MF spindle system – Changeable Ø 50 mm spindle shaft, 100 mm useable height	O	O	O	O
108	MF spindle system – Changeable spindle shaft with collet chuck	O	O	O	O
113	MULTI fine adjustment system with 450 mm fence plates	O	O	O	O
–	Speed 3000/6000/8000/10,000 rpm	S	S	S	S
–	Spindle fence 220 for tool Ø max. 220 mm	S	S	S	S
–	Moulder spindle 90° with height adjustment at the front of the machine	S	-	-	-
–	Spindle moulder tiltable 90°–45°, with scale	-	S	S	S
–	Max. tool diameter that can be lowered below the table at 90°	7" (180 mm)	7" (180 mm)	7" (180 mm)	7" (180 mm)

S ... Standard Equipment | O ... Optional | W ... Choice | - ... Not available

	Anodised sliding table	B3 basic	B3 winner	B3 winner comfort	B3 perform
130	Format sliding table 800 mm, cutting length 865 mm*	S	-	-	-
131	Format sliding table 1250 mm, cutting length 1300 mm*	O	S	-	-
132	Format sliding table 2000 mm, cutting length 2050 mm	-	O	S	
133	Format sliding table 2500 mm, cutting length 2500mm, edging shoe*	-	-	-	S
	Outrigger tables and crosscut fences				
160	1100 outrigger table	-	O	S	-
161	Outrigger table 1250	-	-	-	S
163	Mitre index system for the outrigger table (#160/161)	-	O	S	O
164	900 mm crosscut fence for all sliding table lengths	S	S	O	O
165	750 mm telescopic extension for the crosscut fence (#164)	O	O	O	O
166	1300 mm crosscut fence for the 1100 outrigger table (#160)	-	O	-	-
168	1300 mm outrigger crosscut fence instead of 900 mm (#160)	-	O	S	-
169	2600 mm crosscut fence for the 1250 outrigger table	-	-	-	S
	Weight				
–	Weight kg (with standard configuration) net/gross	350	400	400	570
	Important accessories				
–	01.1.200 – Digital indicator clock with 0.1 mm resolution, counting clockwise. Inclination 2mm/2° (for moulding unit)	O	O	O	O
210	Rolling carriage without lifting bar	O	O	O	O
211	Lifting bar	O	O	O	O
212	Tilt away device for power feeders	O	O	O	O
221	Transport preparation for overseas transport	O	O	O	O
223	Heat treated pallet in accordance with IPPC regulations	W	W	W	W
–	.SET-HA20-1 – SET: Display clock with system handwheel - (for saw unit)	O	O	O	O

S ... Standard Equipment | O ... Optional | W ... Choice | - ... Not available

Hammer.

Product range

Combination Machines C3 31

Combination Machines C3 41

Saw-Spindle Moulders B3

Planer-Thicknesser A3

Circular Saws & Sliding Table Panel Saws K3, K4

F3 Spindle Moulder

CNC Portal Milling Machines HNC

Edge sanders

Bandsaws

Air filter dust extractor