

Your workshop on only 1.5 m² extremely compact

Compact dimensions without sacrificing performance and versatility.



A small working space does not necessarily mean that your demands of a combination machine must also be small. It is the opposite in fact - your Hammer C3 31 combination machine fulfils the highest of requirements, with perfect results, in the smallest of spaces. Modern machine technology enables quick change-over times - regardless whether planing, sawing, moulding or drilling. The excellent value for money, the user-friendliness, the versatility and the precision are all unbeatable qualities in this class, see for yourself!

The C3 31 with Comfort Package is the "ultimate" combination machine for woodworking professionals with high requirements. The 2000 mm cutting length and the outrigger table ensure a perfect support surface for processing large workpieces.

For mortising or doweling you can equip your jointer/planer with the horizontal mortiser.

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Variations

Models & Your Advantages



C3 31

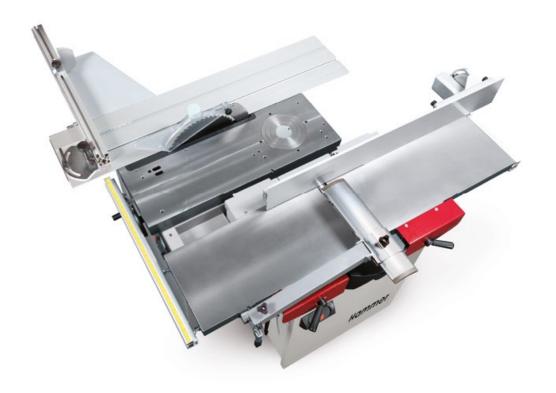
- » Planing width 310 mm or other way round 310 mm planing width
- » 865 mm cutting length
- » Spindle moulder fence for toolsØ max. 220 mm
- » MF spindle system (optional)
- » Mortising unit attachment (optional)

C3 31 comfort

- » Planing width 310 mm or other way round 310 mm planing width
- » Cutting length 2050 mm
- » Spindle moulder fence for toolsØ max. 220 mm
- » MF spindle system (optional)
- » Mortising unit attachment (optional)

C3 31 perform

- » Planing width 310 mm or other way round 310 mm planing width
- » Cutting length 2500 mm
- » Spindle moulder fence for toolsØ max. 220 mm
- » MF spindle system (optional)
- » Mortising unit attachment (optional)





Planing, sawing and moulding on just 1.5 m²

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Solid cast iron tables and units

Hammer combination machines are equipped with solid cast iron tables, reliable units and powerful motors that guarantee long-term precision and customer satisfaction.



Quickest changeover time from planing to sawing, moulding and vice versa

Space-saving and an optimal ergonomic concept: The working tables of your Hammer combination machine tilt towards the middle of the machine, which means very little walking around the machine for you and no restriction to your range of movement. The simultaneous, dual opening and closing of the planing tables saves time and is extremely comfortable. The planing tables lock automatically at the 0° end position.



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.

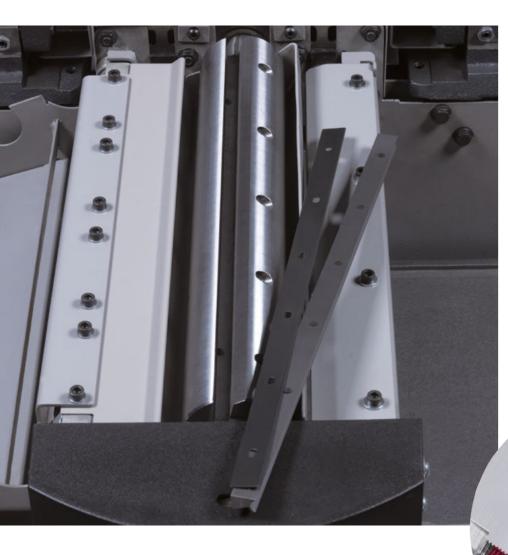
Decades of experience building machines, Austrian craftsmanship, strict quality standards and tried and tested Felder system solutions, guarantee excellent woodworking machines, the best operating results and customer satisfaction for years to come. From the passionate woodworker to the business user 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

Details



3 knife quick-change, self-setting cutterblock system, the heart of every Hammer planer

The Hammer 3-knife self-setting cutterblock guarantees excellent planed wood surfaces and the greatest ease of use. Since 1987 the cutterblock quick-change system has proven itself a thousand times over and our customers worldwide have saved on expensive additional investment in standard planer cutterblocks. The quick-change cutterblock system is only available from the Felder Group! Your advantages at a glance

- » Planer knife change without adjustments in seconds
- » Disposable knives, each with 2 cutting edges at an inexpensive price
- » No expensive adjustment tools, like those used for standard planing knives, are necessary
- » No second set of planing knives are required during the sharpening cycle





INCREDIBLY QUIET

and your employees the Silent-Power spiral blade cutterblock reduces noise levels by 50 % (10 db A) when compared with conventional systems.



20 TIMES LONGER BLADE LIFE

For the sake of your health saves money the tungsten carbide cutters in the Silent-Power spiral blade cutterblock provide up to twenty times the cutting edge service life of HSS cutters.



FOUR CUTTING EDGES

More "planer knives" at the same price each tungsten carbide knife (on the Silent-Power spiral blade cutterblock) has four cutting bevels. Quickest change of the cutter with a simple single "turn".



LOWER POWER CONSUMP-TION

save power costs regardless of the planing width, the Silent-Power cutterblock uses significantly less power than comparable systems.



TEAR-FREE PLANING RESULTS

Real spiral-knife technology continuous, pulling cut thanks to the compact arrangement of all cutting edges with optimised cutting angle on the Silent-Power spiral blade cutterblock.



LARGE **CHIP SPACE**

smallest chipping volumes The chipping flow optimised chip clearance of the Silent-Power spiral blade cutterblock and the short cutting bevels guarantee the best possible chip transport and the lowest chip volumes



IN-HOUSE PRODUCTION

Innovation made in Austria. The Silent-Power spiral blade cutterblock is manufactured 100% in the factory in Hall i. T., Austria. Local craftsmanship and uncompromising manufacturing standards guarantee the top quality "Made in Austria".



PATENTED SINCE 2012

Often copied, but never equalled Almost 10 years ago, the Silent-Power spiral blade cutterblock has set new standards on the market in terms of noise reduction, quality and efficiency and remains unparalleled to this day.



Solid planer tables for absolute precision

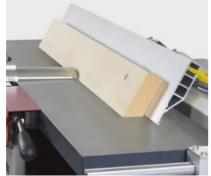
The strong ribbed Hammer planer and thicknesser tables are made from solid cast iron and ensure perfect precision in every situation. The width of the planing table equates to the planing width, which means that workpieces can be planed safely across the full length of the planing table.



Quick and simple: Depth of cut adjustment when

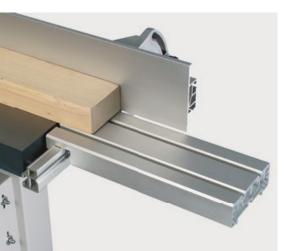
The large adjustment handle for the planing depth of cut is integrated perfectly into the machine design. The depth of cut adjustment of up to 4 mm can be carried out quickly, simple and precisely without having to release any locks. That is top class operating comfort.





The planer fence for exact joining and bevelling

The planer fence can be moved and fixed to any position across the width of the table. The planing fence is made of aluminium and can be tilted and fixed at any position between 90°-45°. Fine adjustable end stops ensure an exact 90° and 45° position. The precise workpiece guiding whilst joining and bevelling is helped by the long planing fence.



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!

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Dual opening of the jointing tables

Space-saving and an optimal ergonomic concept: The working tables of your Hammer combination machine tilt towards the middle of the machine, which means very little walking around the machine for you and no restriction to your range of movement. The simultaneous, dual opening and closing of the planing tables saves time and is extremely comfortable. The planing tables lock automatically at the 0° end position.





Maximum thicknessing height for large dimensioned

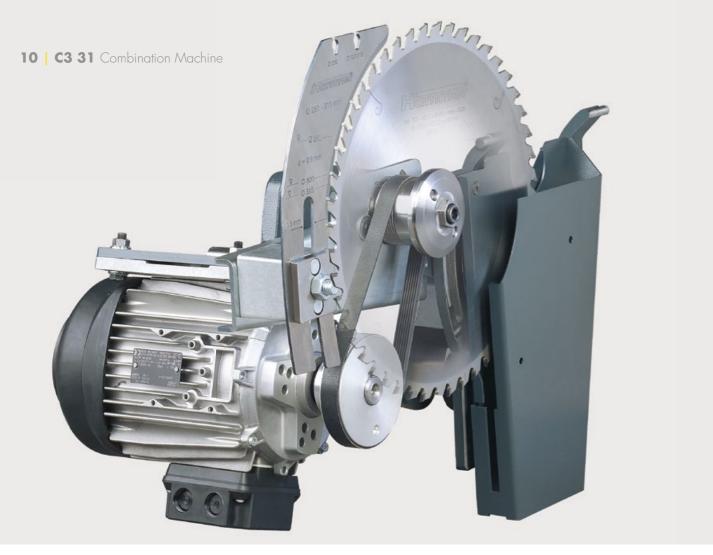
The maximum thicknessing height of 225 mm is a guarantee for the perfect processing of large and heavy workpieces. An even more precise, tenth of a millimetre, accurate adjustment of the thicknessing height is possible with the optional handwheel and integrated digital clock.



Perfect extraction technology - a clean solution

The aerodynamically optimized construction of the dust extraction hood with its ample chip space guarantees an ideal chip extraction and clean working surface.





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.



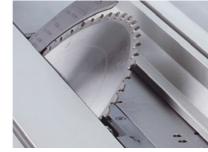
Grooving, slot and tenoning with the saw

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.

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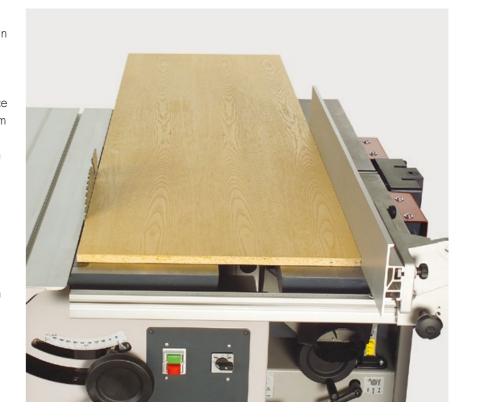


Perfect: robust rip fence for parallel cuts on the C3 31 combination machine.

All dimensions are possible, the rip fence can be clamped parallel to the circular saw blade which provides for an optimal support surface.

Rip fence on the saw table

The cutting width on the saw table can be adjusted to any position between 0 and 600 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.





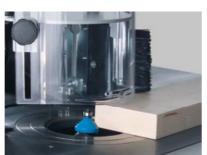
Stability and operating smoothness - the Hammer spindle moulder unit

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.

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.







moulder spindle

The standard: Moulder spindle-Ø 30 mm for standard moulding tools. Ideal for all "classic" moulding work.

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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.





Safety Bar Guides

Safety bar guides for continuous guiding of the workpiece along the spindle fence (optional).



The MULTI-fine adjustment system

Without losing any settings, just a few turns of your hand allows you to swap spindles of varying diameters.



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!



The Mortising Unit

The mortising unit is mounted to the planer side.



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



Format sliding table perform

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 becomes an entire large panel saw with the outrigger table .



Locking pin



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.

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.



Technical specifications

Electrics		C3 31	C3 31 comfort	C3 31 perform
001	3x 400 V motor voltage	S	S	S
003	$1x\ 230\ V$ motor voltage, motor power 4.0 HP (3.0 kW) S6/40%	0	0	0
004	50 Hz motor frequency	S	S	S
005	60 Hz motor frequency	W	\bigvee	\bigvee
007	Motor power 4.0 HP (3.0 kW) S6/40%	S	S	S
11	Forward and reverse run	S	S	S

Plani	ng unit and cutterblock	C3 31	C3 31 comfort	C3 31 perform
42	3 knife quick-change, self-setting cutterblock system	S	S	S
43	3-knife standard cutterblock	0	0	0
44	Silent-Power spiral cutterblock	0	0	0
-	Anodised planer fence tilts from 90°-45°	S	S	S
-	Surface planer fence length in mm	150x1150	150x1150	150x1150
-	Surface planing width in mm ->	310	310	310
-	Planing table length in mm	1400	1400	1400
-	Number of knives - Silent-POWER spiral cutterblock	47	47	47
-	Maximum depth of cut in mm	4	4	4

Plane	er and Feed Drive	C3 31	C3 31 comfort	C3 31 perform
-	Thicknessing width in mm	306	306	306
-	Thicknessing height minmax. 4-225 mm;	S	S	S
-	Thicknessing table length in mm	540	540	540
-	Min. workpiece length in mm	145	_	145
-	Synchronous feed speed 6 m/min. (50 Hz)	S	S	S

Saw Unit		C3 31	C3 31 comfort	C3 31 perform
74	Mechanically driven scoring unit Ø 80 mm	0	0	0
76	Variable rip capacity in mm	0–600	0-600	0-600
82	Dado capability for tooling up to $3/4$ " (19.5 mm) width	0	0	0
83	Rip fence basic	_	* , PA	-
85	Fine adjustment of the rip fence winner/basic	0	0	0
-	Main saw blade Ø 250–315 mm, saw blade rotation speed 4800 rpm	S	S	S
-	Saw/spindle moulder table in mm	860 x 300	860 x 300	860 x 300
-	Saw blade tilt 90°– 45°, max. cutting height 103 mm	S	S	S

Anodised sliding table	C3 31	C3 31 comfort	C3 31 perform
130 Format sliding table 800 mm, cutting length 865 mm*	S	-	-
131 Format sliding table 1250 mm, cutting length 1300 mm*	0	-	-
132 Format sliding table 2000 mm, cutting length 2050 mm	0	S	-
133 Format sliding table 2500 mm, cutting length 2500mm, edging shoe*	_	_	S

- Max. Werkzeugdurchmesser versenkbar bei 90° in mm

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Product range

Máquina combinada C3 31		BESTSELLER	PERFORMANCE MODEL
Máquina combinada C3 41		BESTSELLER	PERFORMANCE MODEL
Escuadradoras- tupís B3	SET MODEL	BESTSELLER	PERFORMANCE MODEL
Cepilladoras- regruesadoras A3	BESTSELLER	A3 Sametral Supervisor	AS NORMAN AND AND AND AND AND AND AND AND AND A
Escuadradoras y sierras circulares K3, K4	MODEL	BESTSELLER	KG IICnnes
	NEW	NEW	









C3 31 C3 31 Spindle moulder unit and spindle fence C3 31 comfort perform 100 Moulder spindle -Ø 30 mm, 100 mm Nutzhöhe 100 mm maximum above table opera-S 101 MF spindle system - Changeable \varnothing 30 mm spindle shaft, 100 mm useable height 0 \circ \circ 102 MF spindle system - Changeable spindle shaft Ø 32 mm, 100 mm useable height 0 0 0 103 MF spindle system - Changeable spindle shaft Ø 35 mm, 100 mm useable height 0 0 0 0 104 MF spindle system - Changeable Ø 1 1/4" spindle shaft, 100 mm useable height \circ 105 $\,$ MF spindle system - Changeable spindle shaft \varnothing 50 mm, 100 mm useable height 0 \circ \circ 0 108 MF spindle system - Changeable spindle shaft with collet chuck 0 113 MULTI fine adjustment system with 450 mm fence plates 0 \circ \circ Speed 3000/6000/8000/10,000 rpm Spindle fence 220 for tool Ø max. 220 mm S S S - Moulder spindle 90° with height adjustment at the front of the machine 180 180 180

Outrigge	r tables and crosscut fences	C3 31	C3 31 comfort	C3 31 perform
160 1	100 outrigger table	0	S	-
161 0	Outrigger table 1250	-	-	S
163 M	litre index system for the outrigger table (#160/161)	0	S	0
164 90	00 mm crosscut fence for all sliding table lengths	S	0	0
165 7	50 mm telescopic extension for the crosscut fence (#164)	0	0	0
166 13	300 mm crosscut fence for the 1100 outrigger table (#160)	0	S	-
168 13	300 mm outrigger crosscut fence instead of 900 mm (#160)	0	S	-
169 20	600 mm crosscut fence for the 1250 outrigger table	_	_	S

Mortising unit	C3 31	C3 31 comfort	C3 31 perform
190 Mortising table	0	0	0
191 Mortising chuck 0-16 mm	0	0	0

W	reight reight	C3 31	C3 31 comfort	C3 31 perform
-	Weight kg (with standard configuration) net/gross in kg	610	540/610	780

Important accessories		C3 31	C3 31 comfort	C3 31 perform
210	Rolling carriage without lifting bar	0	0	0
211	Lifting bar	0	0	0
212	Tilt away device for power feeders	0	0	0
221	Transport preparation for overseas transport	0	0	0
223	Heat treated pallet in accordance with IPPC regulations	W	W	W

Hammer

Hammer Affordable functionality and reliability

Since 1997 the Felder Group has been producing high quality yet affordable woodworking machines with the brand Hammer for do-it-yourselfers and small businesses. Robust, durable, space-saving and precise in its operation. Quality products that simply make woodworking fun.

FELDER GROUP

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