

mafe



Catalogue

2013/2014

MAFELL-Pictograms.



230 V

Machine with single-phase AC or universal motor.



400 V

Machine with three-phase AC motor.



CUprex

With **Cuprex** – the new high-performance motor.



Suction

Hose connector for dust/chip removal by suction as standard.



Tilt angle 45°

Tool can be inclined by at least 45°.



Tilt angle 60°

Tool can be inclined by up to 60°.



Tilts to both sides

Tool can be inclined by up to 60° to each side.



FLIPPKEIL

This portable circular saw allows exact plunge cuts with the riving knife installed.



Guide system

Guide tracks and rails are available for this machine in various lengths.



High stock removal

High stock removal rate achieved by powerful motor and latest technology.



Variable depth

Exact adjustment of cutting depth.



Quick-fit paper

Quick-fit sanding paper is firmly held by Velcro-type fastening.



MAX + case

Machine supplied as standard in sturdy plastic or metal carrying case.



Oscillating stroke

Oscillating stroke jig saw with four different actions.



Clockwise / counterclockwise

Optional clockwise or counterclockwise rotation.



Friction clutch

Friction clutch for sawblade enhances safety in extreme conditions.



Fast tool change Tool changes within seconds with supplied assembly tool or, in some cases, without any tools at all, see operating instructions for more information.



Safety brake

Tool is automatically brought to a standstill when the machine is switched off.



Variable speed

Choice of strokes/speed according to material.



Full wave electronics

Smooth start, constant speed under load, and overload protection ensure fast working and a long service life.



Lightweight

Despite its highly robust design, this MAFELL machine has an extremely low weight.

PG = Product group

Connection data

The connection data given in this catalogue refer to the standard design. For export, MAFELL machines can also be supplied for other mains voltages or frequencies. Details on request.

Special note

We expressly reserve the right to modify the technical data and specifications of all the machines depicted in this catalogue. This applies in particular as regards national safety regulations that prescribe protective devices which vary from the standard specification. We were unable to include these special protective devices in the illustrations in this catalogue.

Machines at a glance.

Areas of competence

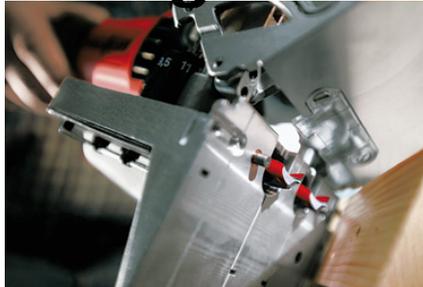
Page 4 – 11

Sawing



from Page	12
Jig Saw	18 – 19
Cross-Cutting System	20 – 27
Portable Panel Saw System	28 – 29
Plunge-Cut Saw	30 – 31
Portable Circular Saw	32 – 45
Portable Circular Carpentry Saw	46 – 51
Carpenter's Chain Saw	52 – 55
Portable Band Saw	56 – 57
Pull-Push Saw	58 – 65

Drilling



from Page	66
Duo-Dowel System	68 – 71
Drilling Machine	72 – 73
Drilling Station	74 – 77
Carpentry Drilling Machine	78 – 81

Sanding



from Page	82
Orbital Sander	84 – 85
Triset Orbital Disk Sander	86 – 87

Planing



from Page	88
Electric Hand Planer	90 – 91
Carpenter's Beam Planer	92 – 95

Mortising



from Page	96
Biscuit Jointer	98 – 99
Hand Router	100 – 103
Groove-Cutting Machine	104 – 105
Multi-Cutter	106 – 109
Door Lock Mortiser	110 – 111
Carpenter's Skew Notch, Lap-Joint and Tenon Cutting Machine	112 – 113
Chain Mortiser	114 – 115
Slot Mortising Attachment	116 – 121
Tenoner	122 – 123

Special Machines



from Page	124
Grooving Machine	126 – 127
Dust Extractors	128 – 131

Miscellaneous

Conversion Table	132
Terms of business	133

The MAFELL success story framed by milestones in wood.



1899 Formation of the company MASchinen-fabrik FELLbach



1926 The world's first portable carpentry machine



1933 Relocation to Oberndorf-Aistaiig



1935 Takeover of MAFELL by Rudolf Mey, a professional engineer



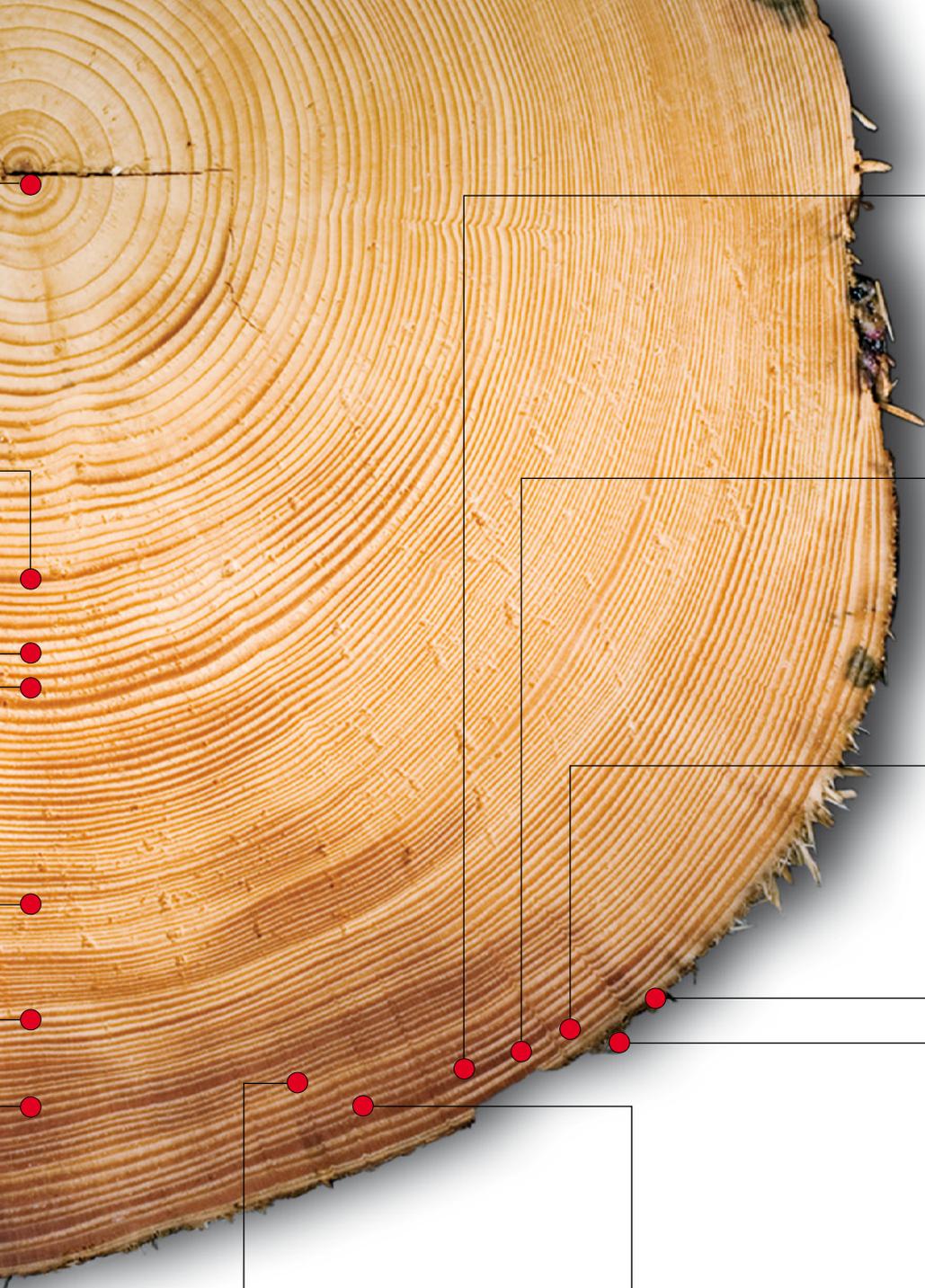
Early 1960's
Introduction of magnesium die castings



1980 Launch of ERIKA, the world's first pull-push saw



1990 Relocation to Oberndorf-Lindenhof



2002 System PSS 3000
Rudolf Eberle Prize



2003 Flexistem KSP 40
Eumacop Innovation Prize



2006 Launch of **CUprex**
high-performance motor



2007 MAFELL reco-
gnized as one of the 100
most innovative companies



2000 ERIKA 70 E
Market launch

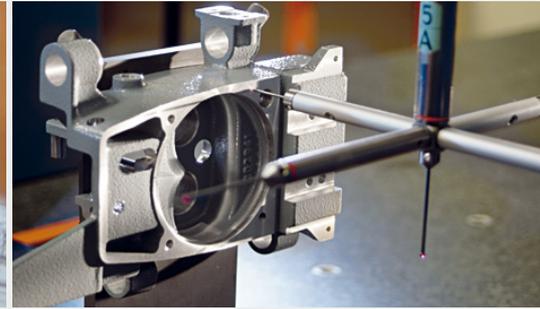
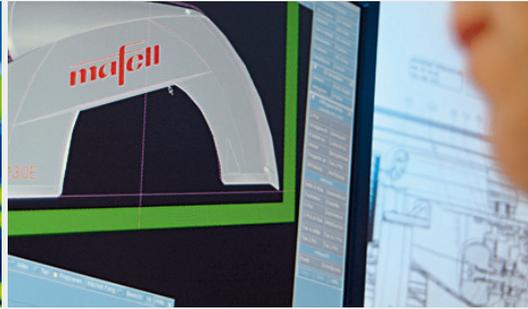
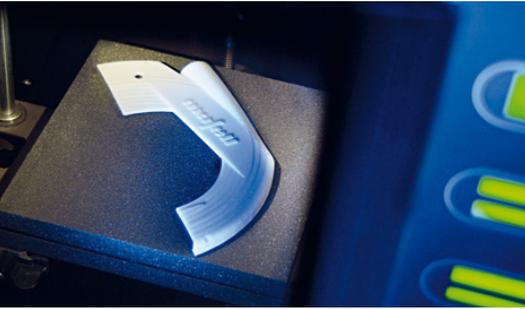


2001 DD40 Market launch



2011 iF Product Design
Award 2011 for the P1 cc

MAFELL's name stands for quality made in Germany.



MAFELL's only production facility is in Oberndorf am Neckar. This commitment to quality made in Germany is further illustrated by a vertical range of manufacturing that covers as much as 85% of its output, and by the company's own toolmaking operation.

From injection moldings to highperformance motors, from design to assembly, and from toolmaking to quality assurance: MAFELL quality is founded on the deployment of our key skills in an exemplary, process-overarching and high-tech manufacturing operation in Oberndorf. This approach enables us to respond quickly to emerging needs.

Use of the highest-grade materials ensure that the strict demands made on machinery and supplies are met:

- Components, made not of regular plastic, but fiber glass-reinforced polyamide, are virtually indestructible
- The magnesium die castings we produce are 30% lighter than aluminium
- A significantly higher copper content results in motors with outstanding torque

Highly innovative technology, premium-quality materials and absolute precision – these attributes collectively make MAFELL an outstanding company.

Typical MAFELL.



MAFELL, machines for generations.

MAFELL machines reveal their true value in the everyday working environment. They are the product of a unique manufacturing process and embody the celebrated MAFELL quality that lasts for generations.

Our products have always been unique, offering high-torque, high-speed motors, sturdy design, supreme precision and outstanding durability at a fair price.

Built by professionals for professionals.



The generation of motors: **CUprex.**

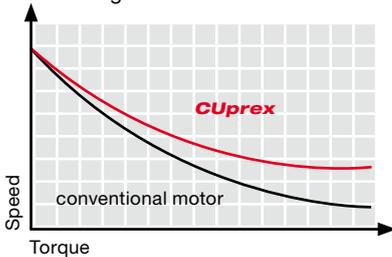


Putting sheer power and high torque on the map: CUprex – the high-torque motor generation with performance optimized digital electronics is setting new standards of pure power.

Sheer power
With its generation of **CUprex** motors, MAFELL offers unique performance based on maximum output, the most modern technology and optimum user-friendliness.

Safety
The control technology permits enhanced control and greater userfriendliness. Most **CUprex** machines are equipped with smooth starting, no-load speed reduction, constant speed under load and overload protection.

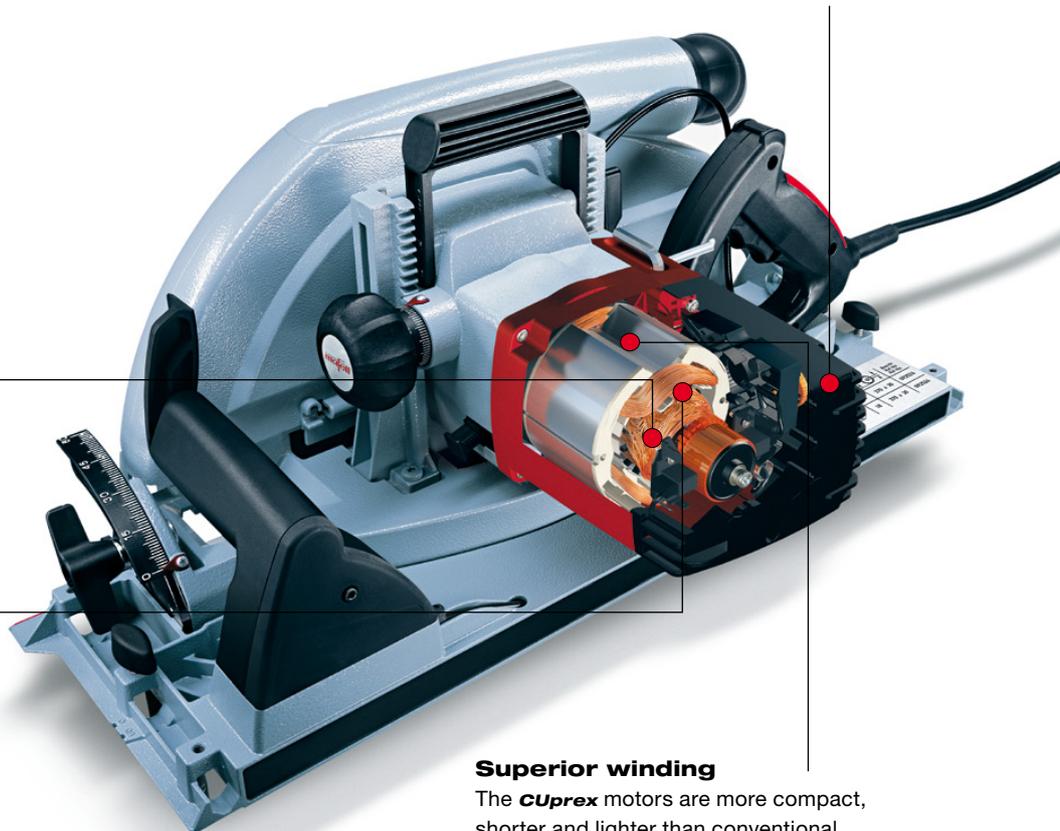
Improved control technology
The **CUprex** control technology ensures a constant speed – especially under high loads.



Variable digital electronics
Improved control: the speed can be varied continuously according to the material and type of application.

Superior winding
The larger armature diameter of the copper wire significantly reduces the stray power. The power potential is tangibly increased.

Enhanced armature geometry
The larger armature diameter makes for noticeably higher torque.



Superior winding
The **CUprex** motors are more compact, shorter and lighter than conventional series motors thanks to their superior design. As a result, the **CUprex** machines fit neatly in your hand and facilitate fatigue-free working.

Product training: The MAFELL training center.



The MAFELL training center was planned and designed by:
Pro Architektur – Gerhild Hamberger

MAFELL training courses

With a view to providing customers with more than simple technical assistance, MAFELL offers its employees effective training courses in modern foreign languages, telephone management and customer relationship management, among many other subjects. Further training is essential if we are to remain our customers' partner of choice on the issues that extend beyond engineering and technology.

MAFELL translates theory into practice.

In our newly furnished training center, we provide application and technical training courses for the MAFELL specialty dealers. All the MAFELL machines, in every product group, are examined and explained in active sessions.

MAFELL product training

Our technical seminars convey well-founded, expert knowledge to all the participants. Our skilled instructors impart both valuable facts and practical hints.

Further information on our product training courses is available by phone on +49 7423/812-278.

Programmed for success: MAFELL added-value offensive.



Superior: three-year guarantee with every machine.

With immediate effect MAFELL is giving more to its customers. Besides innovation, first-class quality and decades of experience, it is now offering a three-year guarantee* with every machine. MAFELL is thus granting customers a bigger share in the confidence enjoyed by its products.

How it works:

Simply fill in the guarantee card and send it direct to MAFELL or your authorized dealer within four weeks of purchase.

Or you can use the convenient and quick option of registering the machine on the internet under www.mafell-garantie.de.

After registering, MAFELL will send you a guarantee certificate for the relevant machine.

To make a claim under the guarantee, you must hand over the machine together with the certificate and the original receipt showing the purchase date.

* Machines purchased from November 2005 are to be covered by a three-year guarantee upon registration. The guarantee runs from the purchase date and is subject to the conditions set forth below.

Notwithstanding the statutory warranty rights, MAFELL grants business customers a 12-month (private customers: 24-month) guarantee from the date of purchase of the machine according to the following provisions: The guarantee exclusively covers faults arising from material, manufacturing and assembly defects.

Wearing parts, tools and battery packs are not covered.



Always up to date: www.mafell.com



Get to know MAFELL online

As you would expect, our website also contains full information on our machines, special accessories and tools.

The site offers value-added benefits as well, including a geographical dealer search function. In the new download section, a wealth of documents and product information is available for downloading.

Pay us a visit at:
www.mafell.com
Enjoy surfing.



MAFELL NEWS

Find out about the latest developments at MAFELL. The fastest route to topical stories on products, trade fairs etc..

Media Centre

An area for information and fun. From hilarious clips to informative product and application videos.



Online registration

By registering your machine, you receive the 3-year basic guarantee. The simplest way to register is online at www.mafell-garantie.de.

Everything for sawing



For the joiner

There must be very few joiners, who are not familiar with the push-pull saws from MAFELL. With the ERIKA as well as with portable circular saws such as the KSP-series, MAFELL has the circular saws for the joining trade which are – in terms of reliability precision, and durability – unbeatable on the market.

The MAFELL sawing range is characterised by a complete spectrum of cutting depths. Whether you are working with a jig saw, a plunge cut saw, a cross-cutting saw or pull-push saw, whether with guide rail or with sliding table, MAFELL has the right machines for all sawing operations. In short, quality machines for the joining trade.

Cross-Cutting System



For the carpenter

Strong wood requires saws with high performance – MAFELL-saws. From a portable circular saw with 40 mm (1 9/16 in.) cutting depth up to well over 200 mm (7 7/8 in.) for portable circular saws and up to 400 mm (15 3/4 in.) cutting depth for portable chain saws. MAFELL offer the widest selection of cutting depths of saws for the carpentry trade worldwide. Only through the closest cooperation with the carpentry trade has the design of genuinely user-friendly machines been made possible.

MAFELL are the only supplier to the carpentry trade of singlephase portable circular saws with a cutting depth up to 185 mm (7 5/16 in.) – a brilliant achievement, which is a major aid to your progress.

Portable Circular Carpentry Saw



For the floor layer

Normal parquet, ready-made parquet, laminate, country house floorboards, etc. The range of flooring types is wider than ever today. The floor layer can find the right saw for every type of material at MAFELL. Each cut is made precisely as required by the floor layer. In particular it is difficult nowadays to imagine the daily work of a floor layer without the ERIKA 60 E Pull-Push Saw.

Pull-Push Saw



MAFELL quality saw blades

So that performance can be used to the full, components must fit together precisely. The saw blades that perform best have been ascertained after extensive testing. On the next few pages, the saw blades are classified as follows:
 Quality (TCT = Tungsten Carbide Tipped, CV = Chrome-Vanadium steel)
 Diameter x Thickness saw blade basic body/cutting width x bore hole,
 number of teeth, tooth type (AT = alternating teeth, FT = flat teeth, HT = hollow teeth, TT = trapezoidal teeth, TZ = trapezoidal flat teeth, CFT = chamfered flat top)

Guide rails

The extendable guide rail with rubber lip and tear protection.

Our new guide rail system is available for the following machines:

P1 cc	MT 55 cc
KSS 400	KSS 400 / 36 V
KSS 80 Ec / 370	KSP 55 F
KSP 55 / 36 V	MS 55
MS 55 / 36 V	KSP 65 F
KSP 85 Fc	K 85 / K 85 Ec
MKS 130 Ec	MKS 145 Ec
MKS 165 Ec	MKS 185 Ec
MF 26 cc	

The guide rails are available in 0.8 m, 1.1 m, 1.6 m, 2.1 m and 3.1 m (2.6 ft, 3.6 ft, 5.2 ft, 6.9 ft and 10.2 ft).

The new, convenient guide rail system F facilitates clean and exact cutting without tearing in conjunction with numerous MAFELL machines. The advantages of this new MAFELL guide rail system are obvious:

- Easily extendable thanks to a newly designed steel connecting piece
- Even the extended guide rails are straight like an arrow thanks to the self-aligning connecting piece
- With removable rubber lip for fast and clean cutting results
- Very light in weight for optimal handling
- Guaranteed non-slip assured by two detachable holding strips on the underside of the guide rail

The rubber lip is guide edge as well as tear protection. For a perfect result you should pre-cut the rubber lip with your machine before using it on the work piece.

The upper side of the guide rail has a special coating which helps your machines moving smoothly on the guide rail and helps you to concentrate on your work and not on pushing the machine through the work piece. Simply easy. The plug-in end profile is supplied with the machine and prevents cables and suction hoses becoming caught. The width of the guide rail matches entirely the width of the machines gliding on top of the guide rail – another factor ensuring a perfect cutting result.

With 2 fixing clamps the guide rail can be fixed additionally on the workpiece.



Two detachable holding strips on the underside of the guide rail ensure outstanding grip and protect the surface of your work piece.

For 100% precision and clean cuts: the MAFELL guide rail system with tear protection.



To connect two guide rails you can easily do that with our connecting piece. Move it out of the park position of the one guide rail right into the groove of the other guide rail. If you do not need it any more, simply slide it back into one guide rail and park it there.

MAFELL-angle fence F-WA

Angle cuts executed exactly according to the scale with the MAFELL angle fence.

The angle fence can be attached to all F-type guide rails with the adapter. Simply attach, adjust and lock the adapter.



Set the angle required for the cut by referencing the large legible scale, and lock the fence.

Place the assembled unit, comprising the angle fence and guide rail, on the workpiece.



Cut the workpiece at the exactly set angle.

Aerofix F-AF 1

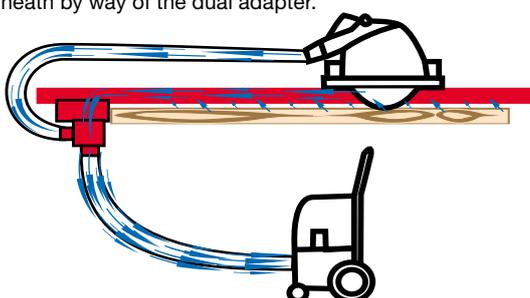
The MAFELL Aerofix F-AF 1 rail set uses the suction force produced by the dust extractor to generate a vacuum underneath the rail profile by means of an adapter system.

Method 1

Suction force applied from underneath, e.g. for parting cuts



Suction fixing for cutting panels, doors etc.. The suction force for fixing the F-AFU 130 to the 1.3 m guide rail is applied from underneath by way of the dual adapter.

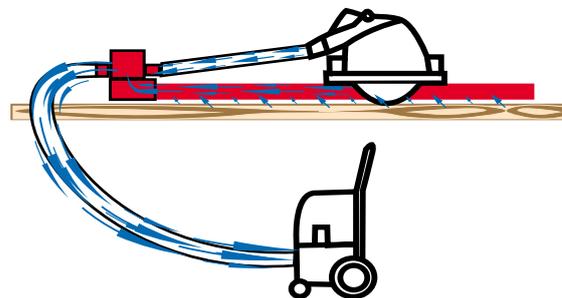


Method 2

Suction force applied from above, e.g. for recessing



Suction fixing on surfaces. Simply attach adapter F-AFO to an existing F-type guide rail to apply the suction force from above.



MAFELL FLIPPKEIL

A safe plunge cut is possible even without unscrewing the riving knife - thanks to the MAFELL FLIPPKEIL.

...and this is how it works:

- The saw blade is positioned 2 mm (1/16 in.) above the lower edge of the machine base plate by means of the stable, smooth-running height rail.
- In this position, the workpiece is no longer in contact with the saw blade.
- This position is secured against unintentional plunge cutting by an upper dead centre (KSP series, KSS 400) or an automatic detent switch.



- Without moving the machine forward, the saw blade can now be plunged directly into the material.
- The sprung FLIPPKEIL automatically remains in the protective cover and rests on the workpiece.

- Optimum control of the plunge cutting process due to:
- Full view of the saw blade on the score (KSP series)
- Exceptionally easy to handle
- As soon as there is a forward movement of the machine, the FLIPPKEIL automatically snaps into the saw cut.
- This ensures maximum user safety when sawing.
- Disassembly and reassembly of the riving knife, which is still necessary with most of other circular saws on the market to be able to carry out plunge cuts, is no longer required!
- The riving knife always remains on the machine!

Models with the new FLIPPKEIL

KSS 300	KSS 400
KSS 400 / 36 V	KSS 80 Ec / 370
PSS 3100 SE	KSP 40 Flexistem
KSP 55 F	KSP 55 / 36 V
KSP 65 F	KSP 85 Fc
K 85 / K 85 Ec	

Jig Saw P1 cc



The iF Product Design Award 2011 for the new Jig Saw P1 cc.



To change the sawblade, simply release the locking lever. Remove the blade and effortlessly insert the replacement.

The vacuum channel integrated in the sole plate guarantees outstanding dust extraction directly alongside the sawblade.

The high-performance CUprex compact motor delivers consistently high speeds, even when executing long cuts.

Product features

- More power thanks to high-performance CUprex compact motor
- Greater precision thanks to CUnex sawblade and rail compatibility*
- Enhanced ease of use thanks to tool-less blade changes and ideal handle positioning
- Greater flexibility thanks to finest special accessories

Application area

- Straight cuts with guide rail and CUnex
- Guided circle cutting with P1-PA parallel fence and CUnex
- Recesses
- Bevel cuts up to 45°
- Compatible materials depend on sawblade; see special accessories/tools

Product description

Owing to its ergonomic design, with low center of pressure and soft pads, the P1 cc is comfortable to hold in every situation.

Sophisticated self-extraction and a clever integrated blower keep the work surface free from chips, even if a dust extractor is not connected. The workplace therefore remains clean at all times.

The P1 cc offers continuously variable speeds in the range 1000 to 3000 strokes/min., so that the output can be adjusted exactly to suit the material.

The sole plate, with integrated vacuum channel, is as sturdy as it looks. By way of a quick-release mechanism, it remains reliably fastened to the saw at an exact right angle.

Its intelligent accessories give the P1 cc unprecedented versatility. The innovative design of the new MAFELL precision sawblade CUnex W1, in particular, facilitates extremely precise sawing.

Technical data

	P1 cc
Nominal power input	900 W
Universal motor	230 V / 50 Hz
No-load number of strokes	800 - 3000 1/min
Weight	2,5 kg
Stroke height	26 mm

Delivery specification

Jig Saw P1 cc MaxiMAX in the MAFELL-MAX	917103
-----------------------------------------	--------

Delivery scope includes:

3 Jig saw blades CUnex W1; W2; W+P2	
1 Parallel guide fence P1-PA	205448
1 Sole plate P1-GP	204350
1 Hose connector P1-AS	203917
1 Chip deflector P1-SA	204353
1 Splinter guard P1-SS	205447
1 Glider P1-G	205464
1 Mains cable 4 m (13.1 ft)	077015

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 4



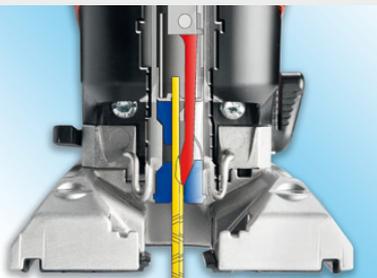
*Accessories for guide rails - see e.g. KSS 400

Innovative CUmax sawblade clamping ensures a positive fit because of a wedge pushing against the blade. This design reliably fastens the sawblade so that it cannot be displaced.

In order not to compromise the strength of the standard sole plate, a separate tilting plate was developed for the P1 cc.

The CUnex W1 consists of two separate, soldered sawblades. The blade's strength and wedge shape ensure precise and square sawing, even when cutting curves.

If exactly straight cuts are required, the P1 cc can be used in conjunction with the MAFELL F guide rail.



Accessories / Tools

	Body thickness		Cutting blade length		Pitch	Cutting depth	Qty. in pack	Solid wood	Board materials (e.g. particle board, fiberboard)	Timber containing metal	Laminate panels, parquet (e.g. Formacell)	Gypsum/cement fiberboard (e.g. Trespa, Resopal)	Melamine resin panels (e.g. Eternit)	Fiber-cement board	Plastics soft	Acrylic (e.g. Plexiglas)	Fiber-reinforced plastics (FRP)	Ferrous metals/copper alloys	Aluminum	Aluminum composite panels
CUnex W1 WOOD High Precision 093676	3	75	4	≤ 64	2	•	•													
W2 WOOD 093701	1.7	75	4	≤ 64	5	•	•													
W3 WOOD 093702	1.7	125	4	≤ 114	5	•	•													
W4 WOOD Progressive 093703	1.3	75	4-5.2	≤ 64	5	•	•	•												
W5 WOOD Progressive 093704	1.5	90	2-3	≤ 79	5	•	•	•												
W6 WOOD Reverse 093706	1.5	75	2.5	≤ 64	5	•	•	•												
W+P 2 WOOD+PLASTIC 093705	1.5	75	2.7	≤ 64	5	•	•	•		•		•	•							
W+M 2 WOOD+METAL Progressive BIM 093707	1.3	105	2.4-5	≤ 94	5	•		•												
L2 LAMINATE 093708	1.3	60	1,7	≤ 15	5				•											
M2 METAL Progressive BIM 093709	1	55	1.1-1.5	≤ 3	5											•	•	•		
E+F 2 EPOXY+FIBER HM 093710	1.2	75	4.3	≤ 64	1						•	•		•						



Assortment 1 093712
4 x W2, W+P2, W5, W4
2 x CUnex W1

Assortment 2 093713
4 x M2, W6, L2, W+M2
2 x CUnex W1



Parallel guide fence P1-PA 205448
incl. circular cutter



Splinter guard P1-SS 205447
5 pieces

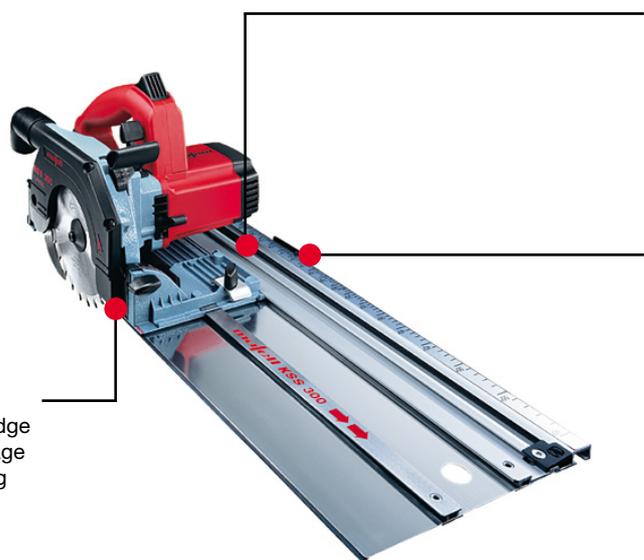


Tilting plate P1-SP 205446
Tilts through 45°

Detailed information about our products
www.mafell.com

Cross-Cutting System

KSS 300



The pivot point of the KSS 300 is on the side, on the bottom edge of the rail. This has the advantage of requiring only a single tracing pointer for all angles – with or without the rail.

Enables you to detach the machine from the rail in a single, quick action. The saw can then be used as a separate portable circular unit with all the functionality of the MAFELL KSP series.

The smart stop and adjustable fence with large scale increments for exact angle settings facilitate very precise and consistent miter cuts.

Product features

- Extremely compact and practical design
- Unique rail system
- Ideal for sawing panels
- Bevel and miter cuts – quick and easy

Application area

- Cross cuts with guide
- Rip cuts and cross-cutting
- Plunge cuts, recesses and cutting shadow gaps from 13 mm (1/2 in.)
- Compatible materials include board materials, doors, worktops, parquet and laminate flooring, cladding

Product description

In internal finishing, one thing is important above all else: precision.

Designed for supreme handling, the KSS 300 cross-cutting system therefore focuses on all the key functions for this type of work.

Fastening the portable circular saw to the KSS rail creates a very practical single-handed cross-cutting system for bevel and miter cuts; once the cut has been executed, the saw automatically returns to the starting position.

Offering a maximum cutting depth of 42 mm (1 5/8 in.), the portable circular saw delivers ample power in all situations. Thanks to magnesium die-cast components, this especially neat and lightweight saw weighs only 2.4 kg (5.3 lbs).

The entire, compact sawing system is accommodated in the MAFELL-MAX carrying case - it is an ideal tool for shadow gaps, rip, bevel, plunge and angled cuts, as well as free-hand work.

Technical data

	KSS 300
Cutting depth	0 - 40 mm
Tilt range	0 - 45 °
Cutting length	300 mm
Nominal no-load speed	8800 1/min
Nominal input	900 W
Weight	3,2 kg
Universal-motor	230 V / 50 Hz
Cutting depth at 45°	0 - 27 mm
Cutting depth without guide track	0 - 42 mm
Angle cuts	+45° - -60°
Dimension incl. guide track	550 x 200 x 200 mm

Delivery specification

Cross-Cutting System KSS 300 MaxiMAX in the MAFELL-MAX	916702
Cross-Cutting System KSS 300 MidiMAX in the MAFELL-MAX	916701

Delivery scope includes:

1 Flexi-Guide rail FX 140 1,4 m (4.6 ft) with splinter guard (MaxiMAX)	204372
2 Clamping claws (MaxiMAX)	203773
1 TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TZ, 40 teeth	092559
1 Parallel guide fence	203180
1 Hose connector	203782
1 Allen key 4 mm	093074
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 4

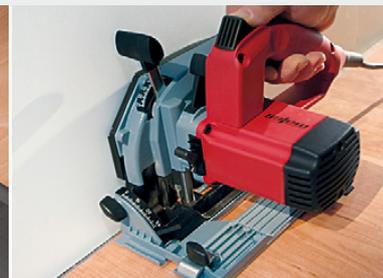


One system, five saws, one case: the KSS 300 can be used as a cross-cut saw, plunge-cut saw, shadow gap saw or portable circular saw with or without the Flexi-Guide for extra guidance when cutting.

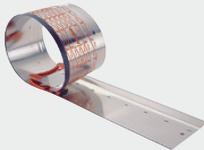
Fastening the portable circular saw to the KSS rail creates a very practical single-handed cross-cutting system.

In combination with the roll-up Flexi-Guide, precise guided cuts up to 1.4 m (4.6 ft) long can be executed with consummate ease.

Perfect edging: the circular saw's spacers enable you easily to make exact expansion joint cuts with widths from 13 mm (1/2 in.).



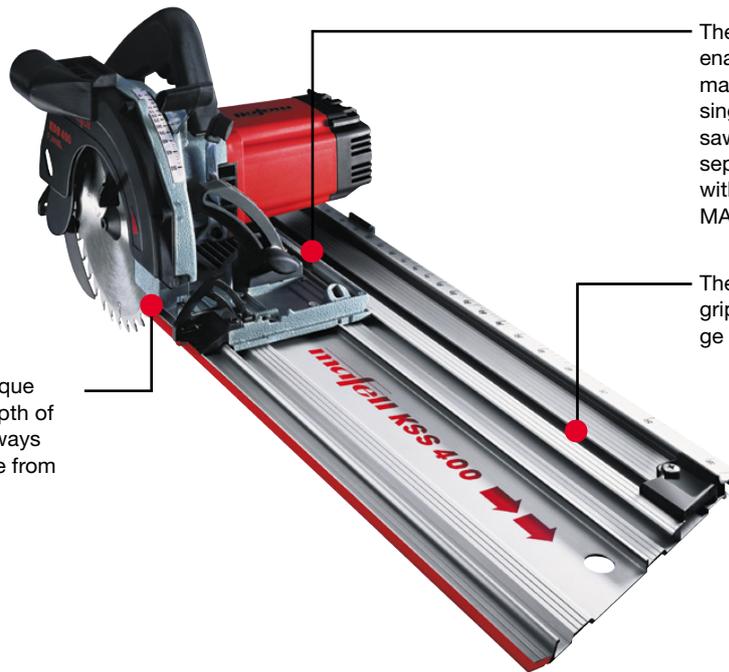
Accessories / Tools

Image	Description	Ref. No.
	Flexi-Guide rail FX 140 1,4 m (4.6 ft) with splinter guard	204372
	Screw clamp for fixing guide rail to workpiece	093281
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TZ, 40 teeth	092559
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 12 teeth	092560
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TT, 40 teeth	092578

Detailed information about our products
www.mafell.com

Cross-Cutting System

KSS 400



Thanks to the new and unique tilting system, a cutting depth of 49.5 mm (1 15/16 in.) is always available in the angle range from 0° to 22.5°.

The quick-release catch enables you to detach the machine from the rail in a single, quick action. The saw can then be used as a separate portable circular unit with all the functionality of the MAFELL KSP series.

The non-slip profile ensures a good grip on the work and avoids damage to the surface.

Product features

- Free-standing operation without a rest
- Unique rail system
- Plunge Cut System with FLIPPKEIL

Application area

- Cross cuts with guide
- Rip cuts and cross-cutting
- Plunge cuts and recesses
- Compatible materials include board materials, doors, worktops, parquet and laminate flooring, cladding

Product description

Forget everything you know about portable circular saws!

The MAFELL KSS 400 cross-cutting system is completely different. Its novel feature is the unique guide track that not only guides the portable circular saw, but is also connected to it to form a single unit: the KSS 400 cross-cutting system.

It's clearly a cut above the rest. The KSS 400 cross-cutting system enables you to saw in a standing position and without a rest, with angular precision and with only one hand on the machine. Its handling is unbeatable: thanks to magnesium die-cast components, the entire system weighs only 5.2 kg (11.5 lbs).

Once the cut has been executed, the saw automatically returns to the starting position. The maximum cutting length, exploiting the full cutting depth, is 400 mm (15 3/4 in.).

The pivot point of the KSS 400 is directly aligned with the splinter guard, so that only one marking pointer is required irrespective of the angle setting, with or without a rail. The splinter guard is embedded in the rail profile and can be changed quickly and simply as required.

Technical data

	KSS 400
Cutting depth 0° to 22.5° with guide track	0 - 49,5 mm
Cutting depth 45° with track	0 - 38 mm
Cutting depth 0° to 22.5° without guide track	0 - 55 mm
Cutting length	400 mm
Tilt range	0 - 45°
Nominal input	1100 W
Angle cuts	-60 - +60°
Nominal no-load speed	5200 1/min
Weight	5,2 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Cross-Cutting System KSS 400	916501
Cross-Cutting System KSS 400 with guide rail 1,6 m	916511
Cross-Cutting System KSS 400 in carrying case	916502
Cross-Cutting System KSS 400 in carrying case with guide rail 1,6 m	916516

Delivery scope includes:

1 TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
1 Parallel guide fence (916502 + 916511)	
1 Guide bow (916501 + 916511)	203208
1 Hose connector for chip extraction	200042
1 Allen key 5 mm	093034
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower Please find on page 132.

PG A
Price list page 4



One-stop solution: in view of the saw's connection to the guide track, this is the world's first and only single-handed cross-cutting system.

The KSS 400 can be detached quickly and easily from the guide track for operation with an existing guide track.

The smart stop and adjustable fence allow the saw to be used for angle cuts from 0° to 60° in either direction.

The highly graduated scale permits very precise angle setting.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

Image	Description	Ref. No.
	Guide track 770 max. tilt range 770 mm (30 5/16 in.)	204378
	Parallel guide fence with wing screws	203214
	Mushroom-shaped handle 201451 as additional machine guide, with fixing screw	201451
	Carrying case with insert	204240
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539

Detailed information about our products

www.mafell.com

Cross-Cutting System KSS 400 / 36 V

NEW



The saw is compatible with the MAFELL special accessories for the corresponding mains-powered models (e.g. saw blades).

The cross-cutting system with the latest 36 V lithium-ion technology offers unprecedented flexibility and unrestricted use with full freedom from the mains power supply.

The quick-release catch enables you to detach the machine from the rail in a single, quick action. The saw can then be used as a separate portable circular unit with all the functionality of the MAFELL KSP series.

Product features

- Portable 36 V Li-Ion technology
- Unique rail system
- Precise angle and miter cuts

Application area

- Cross cuts with guide
- Rip cuts and cross-cutting
- Plunge cuts and recesses
- Compatible materials include board materials, doors, worktops, parquet and laminate flooring, cladding

Product description

Forget everything you know about portable circular saws!

Its novel feature is the unique rail that not only guides the portable circular saw, but is also connected to it to form a single unit: the KSS 400 / 36 V cross-cutting system.

It's clearly a cut above the rest. The KSS 400 / 36 V cross-cutting system enables you to saw in a standing position and without a rest, with angular precision and with only one hand on the machine. Its handling is unbeatable: thanks to magnesium die-cast components, the entire system weighs only 6.3 kg (13.9 lbs).

Once the cut has been executed, the saw automatically returns to the starting position. The maximum cutting length, exploiting the full cutting depth, is 400 mm (15 3/4 in.).

The pivot point of the KSS 400 / 36 V is directly aligned with the splinter guard, so that only one marking pointer is required irrespective of the angle setting, with or without a rail.

The rubber lip is embedded in the rail profile and can be changed quickly and simply as required.

Technical data

KSS 400 / 36 V

Cutting depth 0 to 22,5° with guide track	0 - 49,5 mm
Cutting depth 45° with guide track	0 - 38 mm
Cutting depth 0 - 22,5° without guide track	0 - 55 mm
Cutting depth 45° without guide track	0 - 41 mm
Cutting length with 12 mm thick work	470 mm
Cutting length with full cutting depth	400 mm
Tilt range	0 - 45°
Battery	36 V (2,6 Ah) Li-Ion
Nominal no-load speed	3800 1/min
Weight	6,3 kg
Nominal voltage	36 V
Angle cuts	-60 - +60°

Delivery specification

Cross-Cutting System KSS 400 / 36 V in carrying case	918401
-------------------------------------------------------------	---------------

Delivery scope includes:

1 TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
2 Battery 36 V (2,6 Ah) Li-Ion	094412
1 Power-Station APS 36	094408
1 Hose connector for chip extraction	200042
1 Parallel guide fence with wing screws	201436
1 Guide track 400	204010
1 Allen key 5 mm	093034

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 5

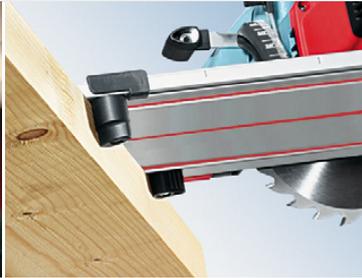


The handy KSS 400 / 36 V is highly suitable for working on site, because it offers full freedom from the mains power supply and extension leads.

The smart stop and adjustable fence allow the saw to be used for angle cuts from 0° to 60° in either direction.

The highly graduated scale permits very precise angle setting.

The KSS 400 / 36 V can be detached quickly and easily from the guide track for operation with an existing guide track.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399
	Battery 36 V (2,6 Ah) Li-Ion	094412

Accessories / Tools

Image	Description	Ref. No.
	Guide track 770 max. tilt range 770 mm (30 5/16 in.)	204378
	Parallel guide fence with wing screws	203214
	Mushroom-shaped handle 201451 as additional machine guide, with fixing screw	201451
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
	TCT saw blade 160 x 1,1/1,6 x 20 mm (6 5/16 in.), FT/CFT, 16 teeth, Battery ideal	092565

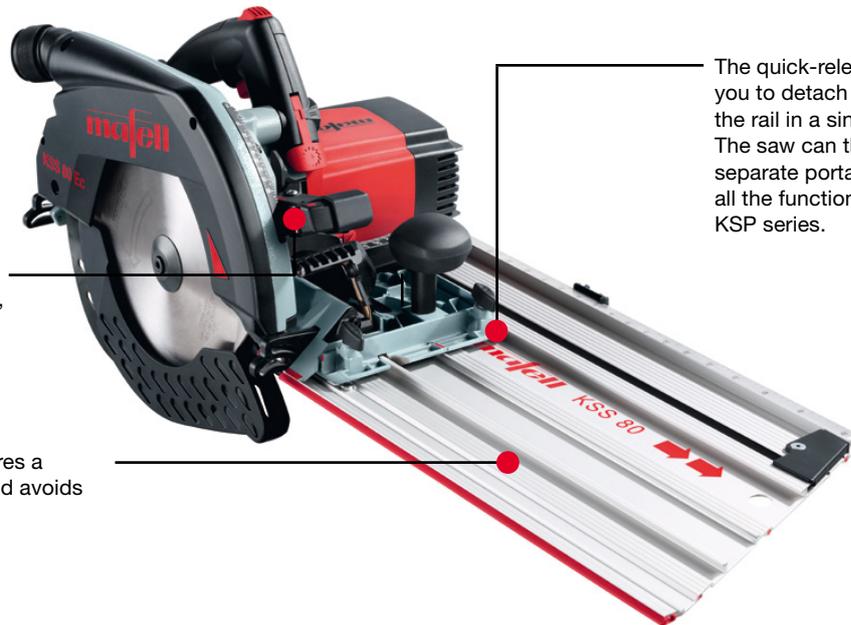
Detailed information about our products

www.mafell.com

Cross-Cutting System

KSS 80 Ec / 370

NEW



The cutting depth is set and locked in a single, quick action.

The non-slip profile ensures a good grip on the work and avoids damage to the surface.

The quick-release catch enables you to detach the machine from the rail in a single, quick action. The saw can then be used as a separate portable circular unit with all the functionality of the MAFELL KSP series.

Product features

- With CUprex, the high-performance motor
- Free-standing operation without a rest
- Unique, precise height adjustment
- Constant cut display
- Plunge Cut System with FLIPPKEIL

Application area

- Cross cuts with guide
- Rip cuts and cross-cutting
- Plunge cuts and recesses
- Compatible materials include solid wood, board materials, insulating materials, doors, worktops and internal finishing and renovation materials

Product description

The new MAFELL KSS 80 Ec / 370 cross-cutting system combines power and precision with ease of use and ergonomic design. These properties transform the machine into a unique carpentry system.

Once the cut has been executed, the saw automatically returns to the starting position. The maximum cutting length, exploiting the full cutting depth, is 370 mm (14 9/16 in.).

Sheer power and high torque take on a whole new meaning with the new high-output CUprex motor. It offers performance-optimized digital electronics and newly developed control technology. Its speed is continuously variable according to the nature of the material and application.

It is no longer necessary to unscrew the riving knife – the FLIPPKEIL offers you optimum user-friendliness and safety when plunge cutting.

Technical data

KSS 80 Ec / 370

Cutting depth	0 - 82 mm
Cutting depth at 45°	0 - 55,5 mm
Cutting depth at 60°	0 - 38,5 mm
Tilt range	0 - 60°
Nominal no-load speed	2250 - 4400 1/min
Nominal input	2300 W
Weight	8,8 kg
Universal-motor	230 V / 50 Hz
Cutting speed	25 - 41 m/s

Delivery specification

Cross-Cutting System KSS 80 Ec / 370	918501
---------------------------------------------	---------------

Delivery scope includes:

1 TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth	092590
1 Parallel guide fence	205323
1 Hose connector for chip extraction	205290
1 Allen key 5 mm	093034
1 Guide track 370	205310
1 Mains cable 4 m (13.1 ft)	087888

Conversion table for inches, pounds, horsepower please find on page 132.

PG A



One-stop solution: in view of the saw's connection to the guide track, this is the world's first and only single-handed cross-cutting system.

The highly graduated scale permits very precise angle setting.

The fixed and adjustable stops on the underside of the rail allow the system to be used for angle cuts from +50° to -60°.

The KSS 80 Ec / 370 can be detached quickly and easily from the system rail for use as a portable circular saw with all the benefits of the K 85.



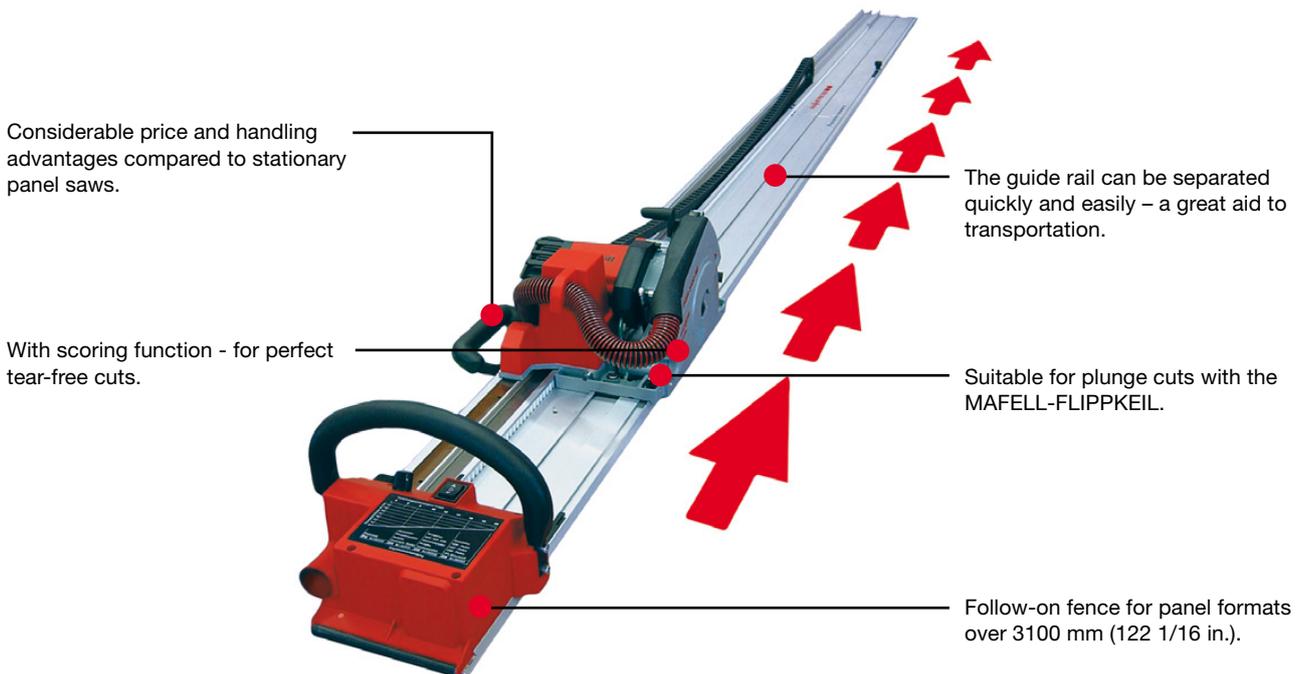
Accessories / Tools		
Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools		
Image	Description	Ref. No.
	Parallel guide fence K 85-PA	205323
	Roller edge guide K 85-UA	205166
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth	092590
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 24 teeth	092591
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 56 teeth	092592

Detailed information about our products
www.mafell.com

Portable Panel Saw System

PSS 3100 SE



Product features

- Very little dust generation
- Portable panel saw system
- Suitable for cement-bonded panels

Application area

- Machining and cutting to size of board materials (e.g. timber frame construction)
- Compatible materials include cement and gypsum fiberboard, plastics, OSB, façade boards, melamine resin panels (Trespa)

Product description

The PSS 3100 SE from MAFELL is the world's first self-driven, rail-guided and mobile panel saw.

Unique design features ensure that hardly any dust escapes during operation. The PSS 3100 SE disposes of an innovative full-size shroud for the saw blade. In conjunction with the integrated suction channel and the S 50 M, it eliminates practically all of the dust particles that occur.

With MAFELL's newly developed diamond saw blade, the PSS 3100 SE is well equipped for use with mineral containing materials including cement fiber panels.

Full-wave electronics with speed adjustment and smooth starting improve safety and allow the speed to be adjusted for various materials, including plastics.

The electronics also ensure constant speed under load and protect the machine against overloading.

Technical data

	PSS 3100 SE
Cutting depth	0 - 45 mm
Cutting length	3100 mm
Nominal no-load speed	2600 - 5200 1/min
Feed rate speed	0,07 - 0,34 m/s
Cutting speed	28 m/s
Nominal input	1490 W
Weight	17 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Portable Panel Saw System PSS 3100 SE	916201
---------------------------------------	--------

Delivery scope includes:

1 TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
1 Allen key 5 mm	093278
1 Mains cable 4 m (13.1 ft)	087594

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 5



Due to the saw feed motor and convenient one-man operation panels can be cut easily and fast.

Setting wheel for speed adjustment for various materials.

The perfect system for all panels from e.f. particle boards up to cement fiber panels.

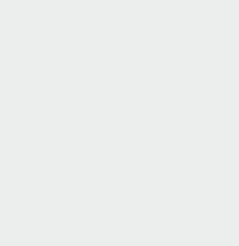
In conjunction with the integrated suction channel and the S 50 M, it eliminates practically all of the dust particles that occur.



Accessories / Tools

Image	Description	Ref. No.
	Cross fence 1250 mm (2 pieces required)	203353
	Guide rail extension 1600 for cutting length of 1600 mm	203752
	Guide rail extension 2600 for cutting length of 2600 mm	203751
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), FT/TT, 56 teeth	092553

Accessories / Tools

Image	Description	Ref. No.
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), TZ, 48 teeth	092569
	DIA saw blade-set 160 x 2,4/3,0 x 20 mm (6 5/16 in.), 4 teeth, for cement-bonded materials, including riving knife	203640
	Saw blade Dia 160 x 2,4/3,0 x 20 mm (6 5/16 in.), 4 teeth, for cement-bonded materials	092474

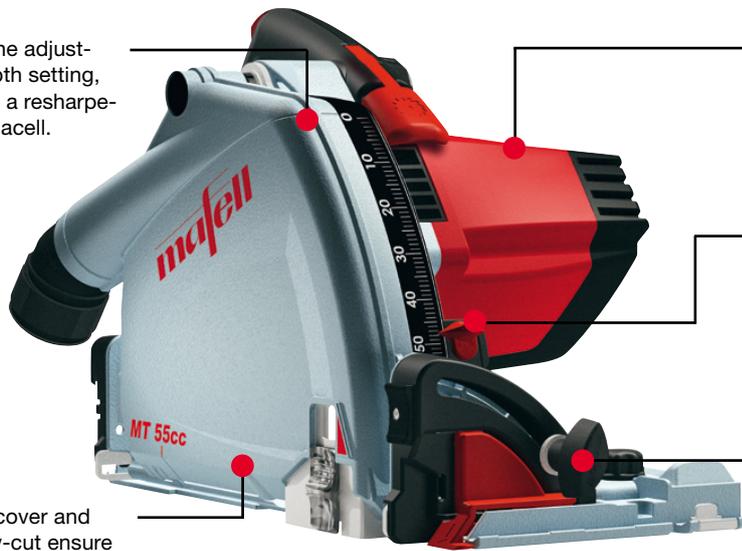
Detailed information about our products

www.mafell.com

Plunge-Cut Saw

MT 55 cc

Facility for extremely fine adjustment of the cutting depth setting, e.g. when working with a resharpened blade or with Fermacell.



The MT 55 cc is equipped with a new CUprex-Compact motor for significantly elevated speeds and ample power in reserve.

The cutting depth can be set with millimeter precision. With or without a rail – simply turn the pointer to show the exact cutting depth.

The closed saw blade cover and the slide bar at the saw-cut ensure a very low dust formation.

For bevel cuts, the angle setting is fixed in two locations with half a turn of a single locking screw.

Product features

- Including scoring function, high speed and fine adjustment for greater precision
- Compatible with other track systems
- With the world's fastest and most innovative blade change
- More power thanks to the high-performance CUprex compact motor

Application area

- Cross-cutting and rip cuts
- Bevel cuts -1 to +48°
- Plunge cuts
- Compatible materials include solid wood, cement fiberboard, melamine resin panels (Trespa), OSB, gypsum fiberboard, plastics, façade boards and various board materials

Product description

The idea of developing a new plunge-cut saw is not new in itself. The novel aspect of this development, however, was the origination of a unique precision product from a set of especially designed machine components.

The MT 55 cc is a jack of all trades. It can execute plunge, parting, bevel and angled cuts with supreme precision and without any tearing.

The scoring function is quickly activated in a single movement. The MT 55 cc then cuts visible edges as cleanly as a stationary machine, even if the splinter guard is worn.

Continuously variable speed for a variety of materials and sawblades. The cutting depth range has now been extended to 57 mm (2 1/4 in.). Thanks to the innovative tilting system, the options afforded for bevel cuts are practically unlimited as well.

Technical data

	MT 55 cc
Cutting depth	0 - 57 mm
Cutting depth at 45°	0 - 40,5 mm
Tilt range	-1 - 48°
Nominal no-load speed	3600 - 6250 1/min
Nominal input	1400 W
Weight	4,7 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Plunge-Cut Saw MT 55 cc MaxiMAX in the MAFELL-MAX	917603
Plunge-Cut Saw MT 55 cc MaxiMAX in the MAFELL-MAX with guide rail F 160	917614
Plunge-Cut Saw MT 55 cc MidiMAX in the MAFELL-MAX	917602
Plunge-Cut Saw MT 55 cc MidiMAX in the MAFELL-MAX with guide rail F 160	917613

Delivery scope includes:

1 TCT sawblade 162 x 1,2/1,8 x 20 mm (6 3/8 in.), AT, 48 teeth	092584
1 Position indicator MT-PA (MaxiMAX)	205398
1 Parallel guide fence (MaxiMAX)	203214
1 Allen key 5 mm	093034
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 5



The saw is easy to use on other track systems as well.

MAFELL offers the fastest blade change worldwide. Simply press release button and lift lever. Housing opens and allows you to change the blade in a matter of seconds, without any risk of damaging the teeth.

With or without rail – simply turn the pointer to show the exact cutting depth.

The MT 55 cc comes into its own, for example, when executing high-precision plunge cuts in kitchen worktops.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

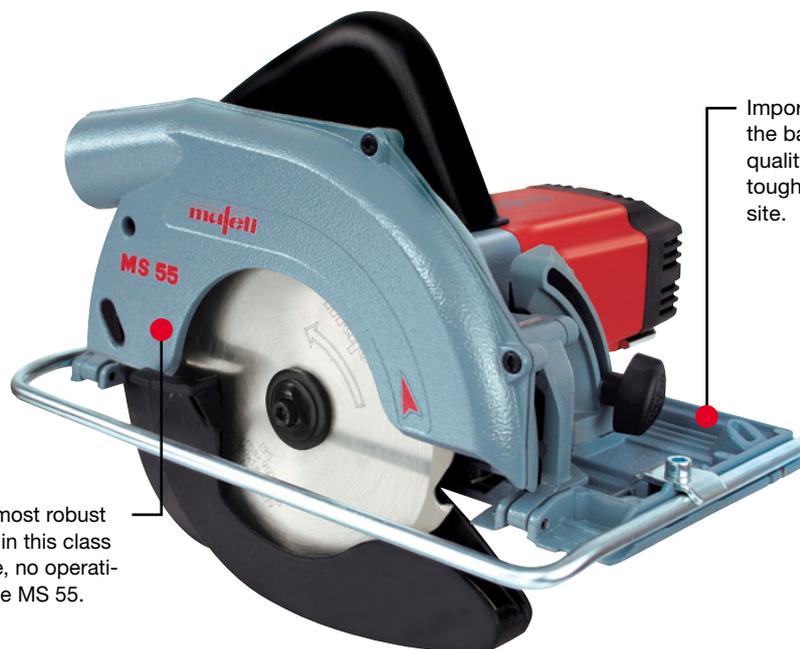
Image	Description	Ref. No.
	Position indicator MT-PA	205398
	Guide fence F-RS	202867
	Parallel guide fence with wing screws	203214
	TCT sawblade 162 x 1,2/1,8 x 20 mm (6 3/8 in.), AT, 48 teeth	092584
	TCT sawblade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT sawblade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
	TCT sawblade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552
	TCT sawblade 160 x 1,8/2,0 x 20 mm (6 5/16 in.), FT/TT, 56 teeth	092553
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), TZ, 48 teeth	092569
	Saw blade Dia 160 x 2,4/3,0 x 20 mm (6 5/16 in.), 4 flat/ trapezoidal teeth	092474

Detailed information about our products

www.mafell.com

Portable Circular Saw

MS 55



Important machine parts such as the base plate are made of high quality diecast magnesium - for tough use on the construction site.

One of the strongest, most robust portable circular saws in this class - due to its high torque, no operation is too difficult for the MS 55.

Product features

- Extremely robust but still very light
- Reliable
- High power reserves

Application area

- Cross and rip cuts in extreme conditions
- Bevel cuts up to 45°
- General building/roof construction works
- Compatible materials include solid wood, timber, planks and boards

Product description

The saw for „tough everyday use“ - the MS 55 from MAFELL. Developed for cutting under the toughest of conditions. Some of the standard features:

Robust and resilient, but only 3.7 kg (8.2 lbs).

Like all our portable circular saws, the MS 55 also uses our guide rail system.

Exact and easy to handle.

Sawing with no ifs or buts!

Technical data

	MS 55
Cutting depth	10 - 55 mm
Cutting depth at 45°	12 - 42 mm
Tilt range	0 - 45°
Nominal no-load speed	4400 1/min
Nominal input	1100 W
Weight	3,7 kg
Cutting speed	23 m/s
Universal-motor	230 V / 50 Hz

Delivery specification

Portable Circular Saw MS 55	915701
-----------------------------	--------

Delivery scope includes:

1 TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
1 Allen key 5 mm	093034
1 Guide bow	203208
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 6



Always „on track“ with the MS 55 and the MAFELL guide rail system.

The angle can be set exactly and fixed on the scale between 0° and 45°

Instead of the double support, the MAFELL parallel guide fence can be used. This is available as an optional accessory.

The stable solid material bar serves as an additional support and as protection for the user and the machine.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

Image	Description	Ref. No.
	Parallel guide fence with wing screws	203214
	Mushroom-shaped handle 201451 as additional machine guide, with fixing screw	201451
	TCT saw blade 092539 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
	TCT saw blade 092533 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT saw blade 092552 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552

Detailed information about our products
www.mafell.com

Cordless Portable Circular Saw

MS 55 / 36 V

NEW



The saw is compatible with the MAFELL special accessories for the corresponding mains-powered models (e.g. saw blades).

Product features

- Portable 36 V Li-Ion technology
- Extremely rugged, but very light
- Substantial power reserves

Application area

- Cross and rip cuts in extreme conditions
- General building/roof construction works with portable power supply
- Compatible materials include solid wood, timber, planks and boards

Product description

The MAFELL MS 55 / 36 V cordless portable circular saw with 36 V and 2.6 Ah technology offers all the functionality of the familiar MAFELL mains model and the accustomed high MAFELL quality – not only as regards strength and performance, but also in respect of precision.

In locations where maximum power is needed, but no sockets are available, the MS 55 / 36 V is in its element, offering up to 60% greater cutting performance for interior work.

Familiar benefits available to cordless machine users too:

- Smooth and simple cutting depth adjustment with a clear scale
- Auxiliary rest with parallel fence as a special accessory

Technical data

MS 55 / 36 V

Cutting depth	10 - 55 mm
Cutting depth at 45°	12 - 42 mm
Tilt range	0 - 45°
Nominal no-load speed	3800 1/min
Battery	36 V (2,6 Ah) Li-Ion
Weight	4,7 kg
Nominal voltage	36 V

Delivery specification

Cordless Portable Circular Saw MS 55 / 36 V in the MAFELL-MAX	918301
----------------------------------------------------------------------	---------------

Delivery scope includes:

1 TCT saw blade 160 x 1,1/1,6 x 20 mm (6 5/16 in.), FT/CFT, 16 teeth, Battery ideal	092565
2 Battery 36 V (2,6 Ah) Li-Ion	094412
1 Power-Station APS 36	094408
1 Guide bow	203208

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 6

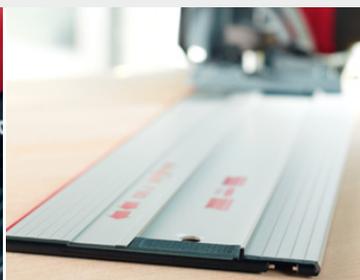


The MAFELL MAX carrying case ensures tidiness and mobility.

Disengaging the power pack from the working position automatically activates the spindle stop.

For executing precise cuts, the MS 55 / 36 V can be used in conjunction with the guide rail system F.

High power reserves make the MS 55 / 36 V an ideal tool for working in environments without access to a mains supply.



Accessories / Tools		
Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399
	Battery 36 V (2,6 Ah) Li-Ion	094412

Accessories / Tools		
Image	Description	Ref. No.
	Parallel guide fence with wing screws	203214
	Mushroom-shaped handle 201451 as additional machine guide, with fixing screw	
	TCT saw blade 160 x 1,1/1,6 x 20 mm (6 5 /16 in.), FT/CFT, 16 teeth, Battery ideal	092565

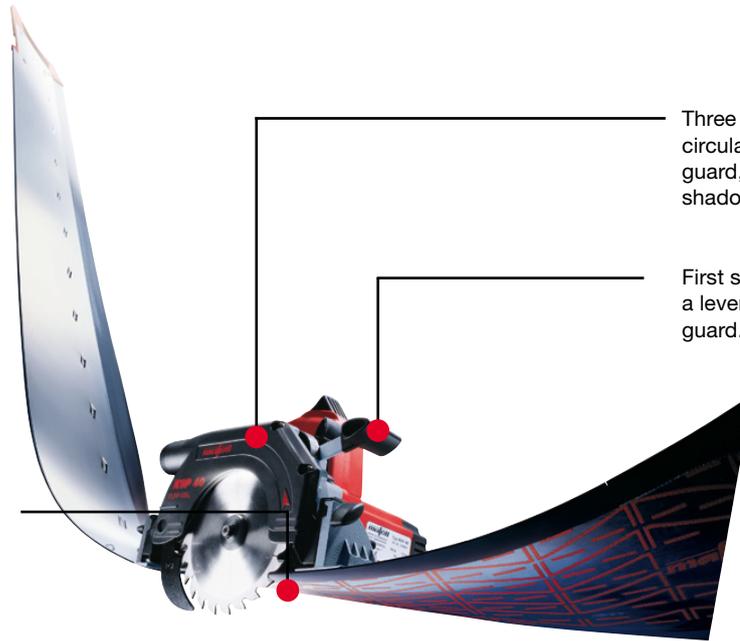
Detailed information about our products
www.mafell.com

KSP 40 Flexistem



Eumacop
Innovation Prize
2003

Pivot point alongside rail.
Only one marking pointer
irre-spective of angle and
with or without rail.



Three saws in one: portable
circular saw with pivoting
guard, plunge-cut saw,
shadow gap saw.

First saw in its class with
a lever to retract the pivoting
guard.

Product features

- **Mobile with Flexi-Guide**
- **Shadow gaps with a gap width of 13 mm (1/2 in.) and above**
- **Plunge-Cut System with FLIPPKEIL**
- **Compact package in space-saving MAFELL-MAX**

Application area

- Rip cuts and cross-cutting
- Bevel cuts up to 45°
- Plunge cuts
- Shadow gaps from 13 mm (1/2 in.)
- Compatible materials include board materials, doors, worktops, lathing, cladding and internal finishing and renovation materials

Product description

The KSP 40 Flexistem is a unique portable sawing system comprising a 40-series circular saw and a compact guide rail in a practical carrying case. The benefits to joiners, carpenters and interior decorators are self-evident:

This box of tricks contains everything you need when working on site, for cutting panels to size, sawing shadow gaps, and shortening doors. The relevant sawing system is quickly assembled whatever the job. In conjunction with the innovative Flexi-Guide, the compact and rugged KSP 40 Portable Circular Saw provides an ideal solution for practically every type of cut. Supplied together with a practical carrying case, it's an unbeatable combination.

Technical data

	KSP 40
Cutting depth off rail	0 - 42 mm
Cutting depth on rail	0 - 40 mm
Cutting depth at 45°	0 - 29 mm
Tilt range	0 - 45°
Nominal no-load speed	8400 1/min
Nominal input	900 W
Flexi-Guide effective length	1400 mm
Weight	2,3 kg
Universal-motor	230 V / 50 Hz

Delivery specification

KSP 40 Flexistem in the MAFELL-MAX	915801
-------------------------------------------	---------------

Delivery scope includes:

1 Flexi-Guide rail FX 140 FX 140 1,4 m (4.6 ft) with splinter guard	204372
1 TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
1 Parallel guide fence	203180
2 Clamping claws	203773
1 Hose connector	203782
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds,
horsepower please find on page 132.

PG A
Price list page 7



No problem: shadow gaps with a gap width of 13 mm (1/2 in.) and above.

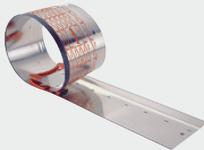
World first: The special steel guide rail can be rolled up to save space.

A handy machine combined with a guide rail ensure high precision, as shown when cutting doors to length.

Everything you need for the KSP 40 Flexistem is immediately to hand in the practical MAFELL-MAX carrying case.



Accessories / Tools

Image	Description	Ref. No.
	Flexi-Guide rail FX 140 1,4 m (4.6 ft) with splinter guard	204372
	Screw clamp for fixing guide rail to workpiece	093281
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TZ, 40 teeth	092559
	TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 12 teeth	092560

Detailed information about our products
www.mafell.com

Portable Circular Saw

KSP 55 F

Healthy working environment – due to a clean workplace and a clear view of the saw blade thanks to optimal dust extraction with the MAFELL S 25 M and S 50 M Dust Extractors.



High quality standard means lower machine costs and longer service life.

It is no longer necessary to unscrew the riving knife – the FLIPPKEIL offers you optimum user-friendliness and safety when plunge cutting.

Parallel guide fence with dual function – on both machine sides as parallel guide fence and as additional bench support, e.g. for bevel cuts.

Product features

- Plunge Cut System with FLIPPKEIL
- Rail for guided sawing
- Long service life
- Lightweight

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 45°
- Plunge cuts
- Compatible materials include solid wood, boards, planks and various board materials

Product description

At MAFELL you can find the plunge cut saw that plunges safely, because the riving knife is where it should be during plunge cutting: at the saw.

A 1100 W (1.5 hp) „MAFELL-made“ motor is the heart of this portable circular saw.

The aim here was to design a robust, easy-to-handle machine for the joiner and carpenter suitable for everyday use.

The highlight: novel twin-located height adjustment, with which the machine can also be used as a plunge cut saw - the riving knife disappears into the protective cover when plunge cutting.

As with all MAFELL portable circular saws, the MAFELL guide rail system can be used with this model as well. The package price is so generous, that sawing without a rail is likely to be the exception, rather than the rule.

Technical data

	KSP 55 F
Cutting depth	0 - 55 mm
Cutting depth at 45°	0 - 42 mm
Cutting speed	23 m/s
Tilt range	0 - 45°
Nominal no-load speed	4400 1/min
Nominal input	1100 W
Weight	4,0 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Portable Circular Saw KSP 55 F	915001
Portable Circular Saw KSP 55 F in the MAFELL-MAX	915002
Portable Circular Saw KSP 55 F with guide rail F 160	915012
Portable Circular Saw KSP 55 F in the MAFELL-MAX with guide rail F 160	915013

Delivery scope includes:

1 TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
1 Parallel guide fence	201436
1 Hose connector for chip extraction	200042
1 Allen key 5 mm	093034
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 7



Safe, clean plunge cuts with the KSP.

When exiting the material, the FLIPPKEIL returns to where it belongs.

Bevel cuts up to 45° on the guide rail: no problem for the KSP 55 F!

The guide rail can be tightly fixed to the workpiece with the screw clamp.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

Image	Description	Ref. No.
	Mushroom-shaped handle 201451 as additional machine guide, with fixing screw	
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 24 teeth	092533
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 16 teeth	092539
	TCT saw blade 160 x 1,2/1,8 x 20 mm (6 5/16 in.), AT, 32 teeth	092552

Detailed information about our products

www.mafell.com

Cordless Portable Circular Saw

KSP 55 / 36 V

NEW



The saw is compatible with the MAFELL special accessories for the corresponding mains-powered models (e.g. saw blades).

It is no longer necessary to unscrew the riving knife – the FLIPPKEIL offers you optimum user-friendliness and safety when plunge cutting.

Product features

- Portable 36 V Li-ion technology
- Rail for guided sawing
- Precise plunge cutting with FLIPPKEIL

Application area

- Bevel cuts up to 45°
- Cross-cutting and rip cuts
- Plunge cuts
- General building/roof construction works
- Cutting performance up to 60 m (196.10 ft), depending on work material and thickness
- Compatible materials include board materials, doors, worktops and internal finishing and renovation materials

Product description

The MAFELL cordless portable circular saw KSP 55 / 36 V with 36 V and 2.4 Ah technology is the first cordless portable circular saw with plunging function with the FLIPPKEIL. It gives you all the functionality of the familiar MAFELL mains model and the accustomed high MAFELL quality – not only as regards strength and performance, but also in respect of precision.

The KSP 55 / 36 V is capable of unrestricted use with the MAFELL guide rail system.

The saw can therefore be used equally well both outdoors, e.g. on the roof, and in the workshop.

Technical data

	KSP 55 / 36 V
Cutting depth	0 - 55 mm
Cutting depth 45°	2 - 42 mm
Tilting range	0 - 45°
Nominal speed - no load	3800 1/min
Battery	36 V (2,6 Ah) Li-Ion
Weight	5,1 kg
Nominal voltage	36 V

Delivery specification

Cordless Portable Circular Saw KSP 55 / 36 V 918101
in the MAFELL-MAX

Delivery scope includes:

1 TCT saw blade	092565
160 x 1,1/1,6 x 20 mm (6 5/16 in.), FT/CFT, 16 teeth Battery ideal	
2 Battery	094412
36 V (2,6 Ah) Li-Ion	
1 Power-Station APS 36	094408
1 Hose connector for chip extraction	200042
1 Parallel guide fence	201436
with wing screws	

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 7



The KSP 55 / 36 V offers all functions of mains-operated variants as e.g. plunging function and use with guide rail system.

To enhance precision, the KSP 55 / 36 V can be used to-gether with a guide rail.

Disengaging the power pack from the working position automatically activates the spindle stop.

High power reserves make the KSP 55 / 36 V an ideal tool for working in environments without access to a mains supply.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399
	Battery 36 V (2,6 Ah) Li-Ion	094412

Accessories / Tools

Image	Description	Ref. No.
	Mushroom-shaped handle as additional machine guide, with fixing screw	201451
	TCT saw blade 160 x 1,1/1,6 x 20 mm (6 5/16 in.), FT/CFT, 16 teeth, Battery ideal	092565

Detailed information about our products

www.mafell.com

Portable Circular Saws

KSP 65 F / KSP 85 Fc

Healthy working environment – due to a clean workplace and a clear view of the saw blade thanks to optimal dust extraction with the MAFELL S 25 M and S 50 M Dust Extractors.



High quality standard means lower machine costs and longer service life.

It is no longer necessary to unscrew the riving knife – the FLIPPKEIL offers you optimum user-friendliness and safety when plunge cutting.

Product features

- Plunge Cut System with FLIPPKEIL
- Rail for guided sawing
- Tiltable to 60°
- Lightweight
- With CUprex, the high-performance motor (KSP 85 Fc)

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 60°
- Birdsmouth cuts
- Plunge cuts
- Compatible materials include solid wood, board materials, insulating materials, doors, worktops and internal finishing and renovation materials

Product description

At MAFELL you can find the plunge cut saw that plunges safely, because the riving knife is where it should be during plunge cutting: at the saw.

Heavy-duty and designed for great cutting performance. The additional handle of the KSP 65 F and KSP 85 Fc is for two-handed use in difficult cutting operations requiring a high degree of control.

A robust high-power motor is the heart of this portable circular saw.

The highlight: novel twin-located height adjustment, with which the machine can also be used as a plunge cut saw – the riving knife disappears into the protective cover when plunge cutting.

Naturally the cutting depth can be set exactly with the scale.

Like all our portable circular saws, the KSP 65 F / 85 Fc also fit into the MAFELL guide rail system. As a package this is so reasonably priced that sawing without a guide rail will become the exception.

Technical data

	KSP 65 F	KSP 85 Fc
Cutting depth	0 - 65 mm	0 - 85 mm
Cutting depth at 45°	0 - 46 mm	0 - 62 mm
Cutting depth at 60°	0 - 31,5 mm	0 - 42 mm
Tilt range	0 - 60°	0 - 60°
Nominal no-load speed	4500 1/min	4870 1/min
Nominal input	1800 W	2250 W
Weight	6,6 kg	6,7 kg
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Cutting speed	25,4 m/s	39,7 m/s

Delivery specification

Portable Circular Saw KSP 65 F	915101
Portable Circular Saw KSP 65 F with guide rail F 160	915111
Portable Circular Saw KSP 85 Fc	915201
Portable Circular Saw KSP 85 Fc with guide rail F 160	915211

Delivery scope includes:

1 TCT saw blade 190 x 1,8/2,5 x 30 mm (7 1/2 in.), AT, 24 teeth (KSP 65 F)	092541
1 TCT saw blade 230 x 1,8/2,5 x 30 mm (9 1/16 in.), AT, 12 teeth (KSP 85 Fc)	092576
1 Parallel guide fence	202363
1 Hose connector for chip extraction	200042
1 Allen key 5 mm	093034
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 8

KSP 85 Fc



„Always on track“ with the KSP on the MAFELL guide rail system.

The MAFELL Circular Saws KSP 65 F + KSP 85 Fc for serial cuts on boards or planks and for framing work. Both do their work reliably and powerfully. Their advantage is the low weight.

The KSP for ripping cuts. The KSP 65 F + KSP 85 Fc with the parallel guide fence for ripping cuts are used precisely and safely. Here you can feel the high cutting power of the motors.

The guide rail can be tightly fixed to the workpiece with the screw clamp.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

Image	Description	Ref. No.
	TCT saw blade 190 x 1,8/2,5 x 30 mm (7 1/2 in.), AT, 24 teeth (KSP 65 F)	092541
	TCT saw blade 230 x 1,8/2,5 x 30 mm (9 1/16 in.), AT, 24 teeth (KSP 85 Fc)	092530
	TCT saw blade 230 x 1,8/2,5 x 30 mm (9 1/16 in.), AT, 12 teeth (KSP 85 Fc)	092576
	TCT saw blade 230 x 2,6 x 30 mm (9 1/16 in.), AT, 56 teeth (KSP 85 Fc)	092582

Detailed information about our products

www.mafell.com

Portable Circular Saws

K 85 / K 85 Ec

NEW

The K 85 / K 85 Ec offers an enhanced cutting depth of up to 88 mm (3 7/16 in.). Even when used in conjunction with the guide rail, it achieves an exceptional depth of 80 mm (3 1/8 in.).



The cutting depth is set and locked in a single, quick action.

Thanks to the new tilting arrangement of the K 85 / K 85 Ec, reading the scale is easier than ever before.

Sawing to mark. The pointer adjusts automatically to the set tilt angle.

Product features

- With CUprex, the high-performance motor
- With new tilting system of 60° for more cutting depth
- Unique, precise height adjustment
- Constant cut display

Application area

- Cross-cutting and rip cuts
- Bevel/compound miter cuts up to 60°
- Birdsmouth cuts
- Plunge cuts
- Abgratungen, Auskehlungen
- Compatible materials include solid wood, board materials, insulating materials, doors, worktops and internal finishing and renovation materials

Product description

The new MAFELL portable circular saw combines power and precision with ease of use and ergonomic design. These properties transform the machine into a unique system.

Sheer power and high torque take on a whole new meaning with the new high-output CUprex motor. It offers performance-optimized digital electronics and newly developed control technology. Its speed is continuously variable according to the nature of the material and application.

It is no longer necessary to unscrew the riving knife – the FLIPPKEIL offers you optimum user-friendliness and safety when plunge cutting.

Technical data

	K 85	K 85 Ec
Cutting depth	0 - 88 mm	0 - 88 mm
Cutting depth at 45°	0 - 61,5 mm	0 - 61,5 mm
Cutting depth at 60°	2 - 44,5 mm	2 - 44,5 mm
Tilt range	0 - 60°	0 - 60°
Nominal no-load speed	4400 1/min	2250 - 4400 1/min
Nominal input	2300 W	2300 W
Weight	7,3 kg	7,3 kg
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Cutting speed	41,0 m/s	25 - 41 m/s

Delivery specification

Portable Circular Saw K 85	918201
Portable Circular Saw K 85 Ec in the L-MAX	918202

Delivery scope includes:

1 TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth	092590
1 Parallel guide fence (K 85 Ec)	205323
1 Hose connector for chip extraction	205290
1 Allen key 5 mm	093034
1 Mains cable 4 m (13.1 ft)	087888

Conversion table for inches, pounds, horsepower please find on page 132.

PG A

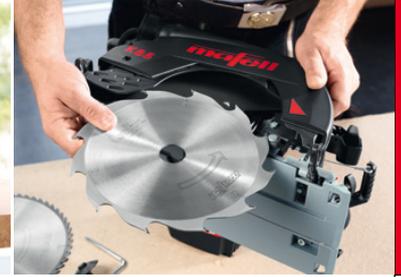


Thanks to the unique tilting system, the sawblade always cuts directly along the rubber lip, irrespective of the angle setting.

Working close to the edge is facilitated by the K 85-UA roller edge guide. Use the scale marked on the arm to set the spacing.

By retracting blade alongside the second handle, offering up the machine is easy and safe, especially when executing bevel cuts.

The sawblade and pivoting guard can be locked with a single action. This practical solution engages the starting lockout at the same time.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399

Accessories / Tools

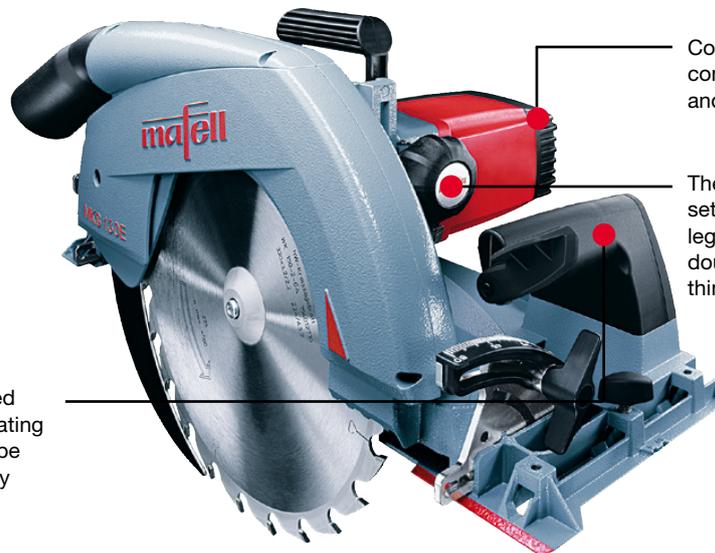
Image	Description	Ref. No.
	Parallel guide fence K 85-PA	205323
	Roller edge guide K 85-UA	205166
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth	092590
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 24 teeth	092591
	TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 56 teeth	092592

Detailed information about our products

www.mafell.com

Portable Circular Carpentry Saw

MKS 130 Ec



Ergonomic, ideally positioned handles offer supreme operating ease and allow the work to be performed efficiently in every situation.

Continuously variable speed control for individual requirements and applications.

The desired cutting depth is easily set with a control wheel and highly legible scale. The nuisance of double-checking dimensions is a thing of the past.

Product features

- With CUPrex, the high-performance motor
- With new tilting system of 60° for more cutting depth
- Unique, precise height adjustment
- Constant cut display

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 60°
- General joining work, birdsmouth cuts
- Compatible materials include solid wood, laminated beams, insulating materials, composite boards

Product description

Sheer power and high torque take on a whole new meaning with the high-output CUPrex motor. It offers performance-optimized digital electronics and newly developed control technology. Its speed is continuously variable according to the nature of the material and application.

The saw's handling and behavior are refined by smooth starting, constant speeds under load, speed reduction and overload protection.

The exemplary design of the MKS 130 Ec embraces extremely rugged and high-quality materials, including the lightweight magnesium die-cast housing and impact-resistant, fiber glass-reinforced plastic components. Most of the surfaces that are conventionally exposed to dust or chips have been eliminated.

The MKS 130 Ec satisfies all the requirements that arise in traditional and modern carpentry: cross and rip cuts in wood or insulating materials are easily executed thanks to the availability of appropriate accessories.

Nothing is left to chance as far as safety is concerned: the MKS 130 Ec features a motor brake and a self-closing saw guard. Among the other safety features, the on/off switch has an integrated starting lockout button.

Technical data

	MKS 130 Ec
Cutting depth	50 - 130 mm
Cutting depth at 45°	37 - 94 mm
Cutting depth at 60°	25 - 65 mm
Tilt range	0 - 60°
Nominal input	2500 W
Nominal no-load speed	1000 - 2000 1/min
Weight	14 kg
Universal-motor	230 V / 50 Hz
Cutting speed	15,4 - 31,5 m/s

Delivery specification

Portable Circular Carpentry Saw MKS 130 Ec	925401
--------------------------------------------	--------

Delivery scope includes:

1 TCT saw blade 330 x 2,2/3,2 x 30 mm (13 in.), AT, 24 teeth	092571
1 Parallel guide fence	203853
1 Allen key 6 mm	093081
1 Mains cable 10 m (32.8 ft)	087612

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 8



To enhance precision, the MKS 130 Ec can be used together with a guide rail.

With a tilting range of 60°, the MKS 130 Ec is ideal for compound miter cuts. Even at this angle, the maximum cutting depth remains impressive 65 mm (2 9/16 in.).

The parallel fence, together with the ample reserve power of the new, high-performance CUPrex motor, are further guarantors of precise guidance and clean cuts.

In combination with the S 50 M dust extractor and guide rail, the MKS 130 Ec makes certain of clean and exact cuts, even in problematic insulating materials.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375

Accessories / Tools

Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	TCT saw blade 330 x 2,2/3,2 x 30 mm (13 in.), AT, 24 teeth	092571
	TCT saw blade 330 x 2,2/3,6 x 30 mm (17 11/16 in.), TT, 40 teeth	092572
	TCT saw blade 330 x 2,2/2,6 x 30 mm (17 11/16 in.), FT, 54 teeth	092579

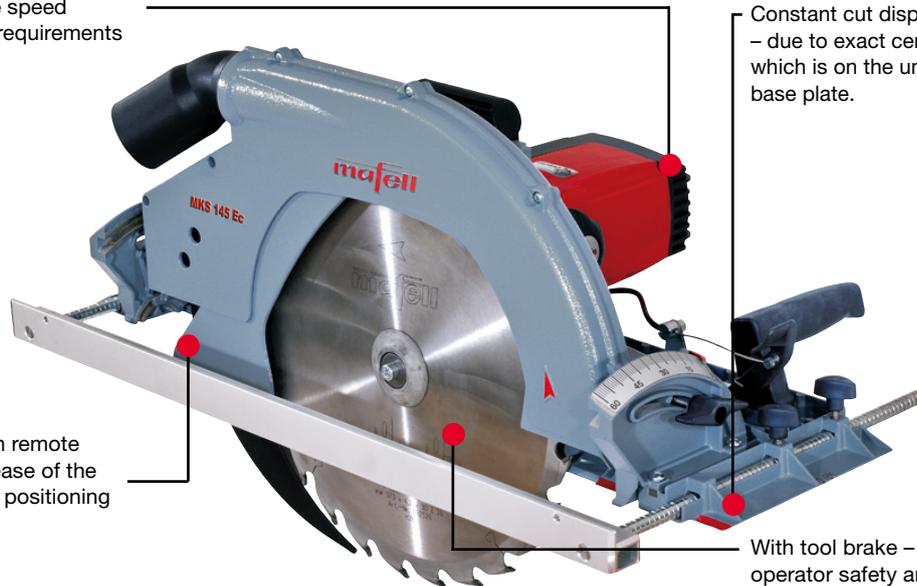
Detailed information about our products

www.mafell.com

Portable Circular Carpentry Saws

MKS 145 Ec / MKS 165 Ec

Continuously variable speed control for individual requirements and applications.



Constant cut display for 0 - 60° – due to exact centre of rotation, which is on the underside of the base plate.

Lower saw guard with remote control – for easy release of the saw blade, e.g. when positioning at sharp angles.

With tool brake – for optimum operator safety and work processes.

Product features

- With CUprex, the new high-performance motor
- Large cutting depths
- Maximum stability with minimum weight
- Tool brake

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 60°
- General joining work
- Compatible materials include solid wood, laminated beams, insulating materials

Product description

Carpenter's portable circular saws with extraordinary weight/performance ratio. Only possible due to the use of ultra-modern die-cast magnesium alloys.

Tiltable to 60°. That make the portable circular saws a universal partner.

An easy-to-read scale on the cutting depth adjustment makes work easier and saves tiresome re-measurement.

The saw's handling and behavior are refined by smooth starting, constant speeds under load, speed reduction and overload protection.

The easy-to-use stop system of the MKS and the adjustable hose connector make your work much easier.

Technical data

	MKS 145 Ec	MKS 165 Ec
Cutting depth	65 - 145 mm	85 - 165 mm
Cutting depth at 45°	46 - 102,5 mm	60 - 116,5 mm
Cutting depth at 60°	32 - 72,5 mm	42 - 82,5 mm
Tilt range	0 - 60°	0 - 60°
Nominal input	2600 W	2800 W
Nominal no-load speed	1900-2300 1/min	1500-1800 1/min
Weight	16,3 kg	17,3 kg
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Cutting speed	34,8 - 42,6 m/s	30,0 - 36,5 m/s

Delivery specification

Portable Circular Carpentry Saw MKS 145 Ec	924701
Portable Circular Carpentry Saw MKS 165 Ec	924501

Delivery scope includes:

1 TCT saw blade 370 x 2,2/4,2 x 30 mm (14 9/16 in.), AT, 26 teeth (MKS 145 Ec)	092526
1 TCT saw blade 410 x 2,5/4,2 x 30 mm (16 1/8 in.), AT, 28 teeth (MKS 165 Ec)	092525
1 Allen key 6 mm	093081
1 Parallel guide fence	
1 Mains cable 10 m (32.8 ft)	087612

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 9

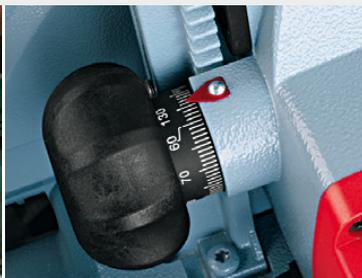


Top results, as shown here with the MKS 165 Ec, can only be achieved with original MAFELL tools.

The cutting depth can be adjusted easily via a precise handwheel.

The constant cut display.

The tilt range of 0° – 60° enables extreme bevel cuts.



Accessories / Tools		
Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375

Accessories / Tools		
Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	TCT saw blade 370 x 2,2/4,2 x 30 mm (14 9/16 in.), AT, 26 teeth (MKS 145 Ec)	092526
	TCT saw blade 370 x 2,2/4,2 x 30 mm (14 9/16 in.), AT, 18 teeth (MKS 145 Ec)	092524
	TCT saw blade 410 x 2,5/4,2 x 30 mm (16 1/8 in.), AT, 28 teeth (MKS 165 Ec)	092525
	TCT saw blade 410 x 2,5/4,2 x 30 mm (16 1/8 in.), AT, 20 teeth (MKS 165 Ec)	092522

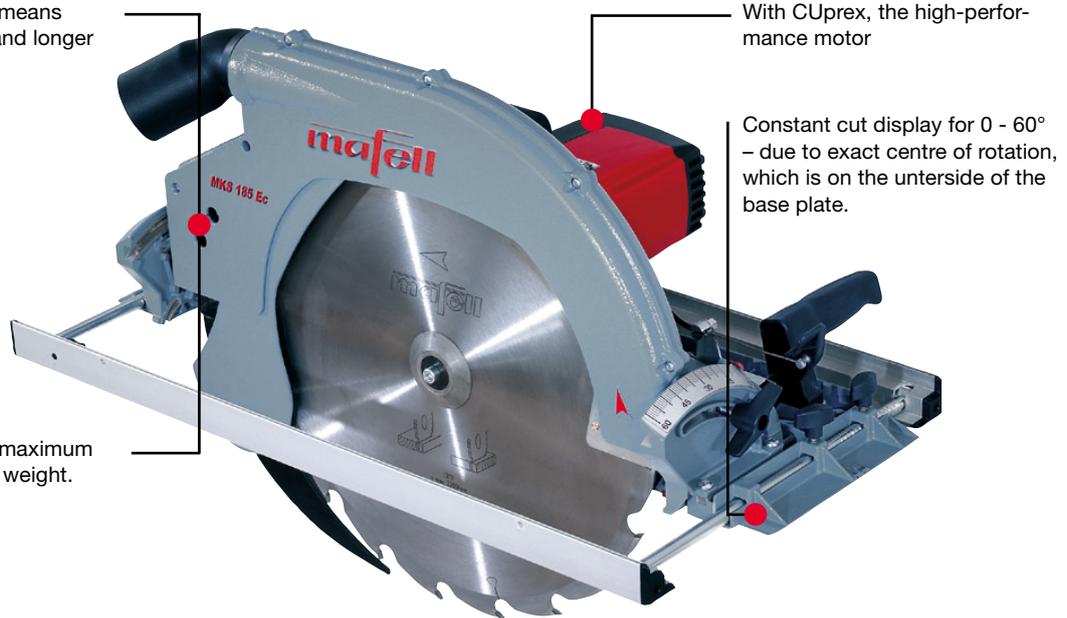
Detailed information about our products

www.mafell.com

Portable Circular Carpentry Saws

MKS 185 Ec

High quality standard means lower machine costs and longer service life.



With CUprex, the high-performance motor

Constant cut display for 0 - 60° – due to exact centre of rotation, which is on the underside of the base plate.

Unique ratio between maximum stability and minimum weight.

Product features

- With CUprex, the high-performance motor
- Maximum cutting depths
- Maximum stability with minimum weight
- Tilttable to 60°

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 60°
- General joining work
- Compatible materials include solid wood, laminated beams, insulating materials, composite boards

Product description

In a class of its own: heavy-duty 3000 watt (3.8 hp) motor for extreme 185 mm (7 5/16 in.) cutting performance!

The saw's handling and behavior are refined by smooth starting, constant speeds under load, speed reduction and overload protection.

The easy-to-use stop system, the low noise emission and the remote-controlled retractable knife guard make your work much easier.

The very smooth-running height adjustment with its clearly legible scale and an effective brake also ensure perfect cutting results and optimum operator safety.

Technical data

	MKS 185 Ec
Cutting depth	105 - 185 mm
Cutting depth at 45°	74 - 131 mm
Cutting depth at 60°	53 - 93 mm
Tilt range	0 - 60°
Nominal input	1400 - 1700 1/min
Nominal no-load speed	3000 W
Weight	19,0 kg
Universal-motor	230 V / 50 Hz
Cutting speed	30,6 - 37,7 m/s

Delivery specification

Portable Circular Carpentry Saw MKS 185 Ec	924801
--------------------------------------------	--------

Delivery scope includes:

1 TCT saw blade 450 x 2,5/4,2 x 30 mm (17 11/16 in.), AT, 20 teeth	092536
1 Allen key 6 mm	093081
1 Parallel guide fence	
1 Mains cable 10 m (32.8 ft)	087612

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 9

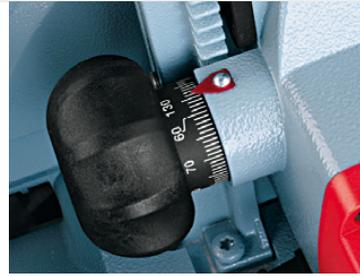
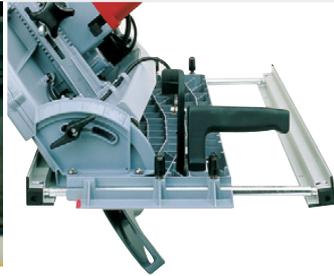


Top results, as shown here with the MKS 185 Ec, can only be achieved with original MAFELL tools.

Stop system on both machine sides with triple function.

The cutting depth can be adjusted easily via a precise handwheel.

The tilt range of 0° – 60° enables extreme bevel cuts.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Aerofix F-AF 1 suction clamping system with rail, adapters for above and underneath rail, flexible hose	204770
	Flexible hose FXS 1000MM up to 3,2 m (10.6 ft) long	205276
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375

Accessories / Tools

Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	TCT saw blade 450 x 2,5/3,8 x 30 mm (17 11/16 in.), AT, 12 teeth	092537
	TCT saw blade 450 x 2,5/4,2 x 30 mm (17 11/16 in.), AT, 20 teeth	092536
	TCT saw blade 450 x 2,5/3,4 x 30 mm (17 11/16 in.), TT, 86 teeth	092534
	TCT saw blade 450 x 2,5/4,5 x 30 mm (17 11/16 in.), AT, 34 teeth	092538

Detailed information about our products

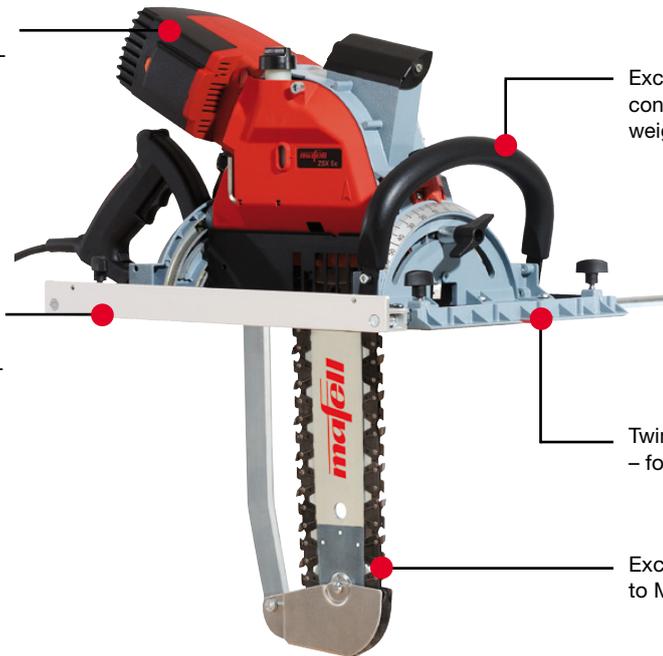
www.mafell.com

Carpenter's Chain Saws

ZSX Ec

3000 W CUprex motor, optimized digital electronics and newly developed control technology.

The universal guide support for very precise individual machining operations such as notch and pur-lin cuts is available as an optional accessory.



Excellent handling and optimum convenience – thanks to light weight and a built-in start-up lock.

Twin-guide tilt adjustment – for precise angle cuts.

Excellent cutting results – thanks to MAFELL special saw chain.

Product features

- With CUprex, the high-performance motor
- Up to 60 °C tilt range on both sides
- Constant cut display

Application area

- Cross-cutting and rip cuts
- Bevel cuts up to 60°
- General joining work
- Compound miter cuts up to 60°
- Compatible materials include solid wood, laminated beams, insulating materials

Product description

MAFELL's unique chain guide system ensures consistent accurate cuts.

The ZSX Ec can be tilted on both sides to 60°. The ability to precisely set a wide range of working angles in opposing directions offers maximum convenience.

The motor's cooling air blows the permanent pointer clean and ensures clear visibility of the mark.

The generously dimensioned and adjustable chip ejector performs extremely efficiently.

Automatic chain lubrication with adjustable speed to eliminate oil spillage on timber.

Like all our portable circular carpentry saws, the ZSX Ec also uses our guide rail system.

Equally adapted for operation by either right-handed or left-handed users. The ergonomically designed handle and switch arrangement always applies the feed pressure at right angles to the support.

Technical data

	ZSX Ec / 260	ZSX Ec / 400
Cutting depth	260 mm	400 mm
Cutting depth at 45°	184 mm	282 mm
Cutting depth at 60°	130 mm	199 mm
Tilts in both directions	-60 - +60°	-60 - +60°
Nominal no-load speed	3000-3600 1/min	3000-3600 1/min
Nominal input	3000 W	3000 W
Weight	13,9 kg	14,6 kg
Universal-motor	230 V / 50 Hz	230 V / 50 Hz

Delivery specification

Carpenter's Chain Saw ZSX Ec / 260 HM	925501
Carpenter's Chain Saw ZSX Ec / 400 HM	925502
Carpenter's Chain Saw ZSX Ec / 400 Q	925503

Delivery scope includes:

2 Carbide-tipped fine-cut saw chains HM 260 for ZSX Ec / 260 HM	006968
2 Carbide-tipped fine-cut saw chains HM 400 for ZSX Ec / 400 HM	006972
2 Saw chain 3/8" 400 P for ZSX Ec / 400 Q	006974
1 Parallel guide fence	204591
1 Combination screw driver 6 mm	093272
1 Mains cable 10 m (32.8 ft)	087612

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 10



Superior cut quality with the ZSX Ec.

Highly legible scale. Standard tilt angles can be set quickly and simply by means of the locking function.

Ideal application e.g. for rafter cuts. The universal guide support as an optional accessory.

The ideally positioned soft grip handles ensure maximum user comfort. The on/off switch and starting lockout are integrated in the rear handle.



Accessories / Tools		
Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	Carbide-tipped fine-cut saw chains HM 260 for ZSX Ec / 260 HM	006968
	Carbide-tipped fine-cut saw chains HM 400 for ZSX Ec / 400 HM	006972
	Saw chain 3/8\" 400 P for rip cuts and cross-cutting	006974
	Guide rail 260 HM for 006968	204581
	Guide rail 400 HM for 006972	204582
	Guide rail 400 3/8\" for 006974	204583
	Riving knife 260 for 006968	204586
	Riving knife 400 for 006972, 006974	204587
	Sprocket HM for 006968, 006972	204584

Accessories / Tools		
Image	Description	Ref. No.
	Sprocket 3/8\" for 006974	204585
	Universal guide support	202069
	Trolley	202113

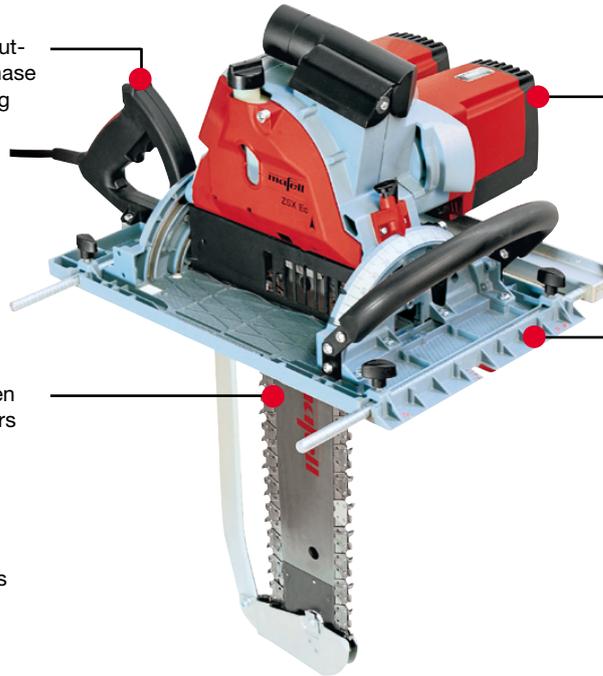
Detailed information about our products
www.mafell.com

Carpenter's Chain Saw

ZSX-TWIN Ec

NEW

Despite tremendous nominal output of 6000 Watt, the single-phase ZSX-TWIN Ec weighs just 20 kg (44.1 lbs). The low weight-to-power ratio allows the saw to cut as deep as 400 mm (15 3/4 in.).



At the core of the MAFELL ZSX-TWIN Ec are the two 3000-Watt single-phase motors. They run at the same time on two 230 V phases of the three-phase electric power system.

The ZSX pivots from -15° to 60° exactly according to the scale.

In timber construction and when fitting solid timber walls, corners frequently need to be cut out. Thanks to the vertical cutting edge, recesses and half-lap joints can be produced quickly and exactly. The arduous task of turning the work simply does not arise.

Product features

- Equipped with two CUprex motors
- Tilts in both directions

Application area

- Rip cuts and cross-cutting
- Recesses
- Compatible materials include solid wood and laminated beams

Product description

The new ZSX-TWIN Ec carpenter's chain saw is a highly practical tool for large timbers.

By developing a machine with two motors, capable of producing very complex and otherwise laborious work easily and for a perfect fit, MAFELL has taken the chain saw to a new level.

With a nominal output of 3000 Watt, just one CUprex motor already tests the performance limits of the conventional 230 V power supply. Two CUprex motors running at the same time would bring a regular fused domestic power system to its knees. By dividing the load between two circuits, the twin-motor ZSX gets all the power it needs. A three-phase electric power system offers the ideal solution because the phases have separate fuses, so that the supply is not overloaded.

Technical data

	ZSX TWIN Ec
Cutting depth	400 mm
Cutting depth at 15°	386 mm
Cutting depth at 30°	346 mm
Cutting depth at 45°	282 mm
Cutting depth at 60°	199 mm
Tilts in both directions	-15° - +60°
Cutting width	6,8 mm
Nominal no-load speed	3600 1/min.
Nominal input	2 x 3000 W
Weight	20,0 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Carpenter's Chain Saw ZSX-TWIN Ec 961601

Delivery scope includes:

1 Carbide-tipped ripping chain TWIN HM 400	006977
1 Carbide-tipped fine-cut saw HM 400	006972
1 Trolley ZSX-TWIN Ec	205940
1 Glider for use with guide rail	205934
1 Parallel guide fence	204591
1 Combination screw driver 6 mm	093272
1 Open-ended spanner 13 mm	093008
1 Mains cable 10 m (32.8 ft)	

Conversion table for inches, pounds, horsepower Please find on page 132.

PG S
Price list page 10

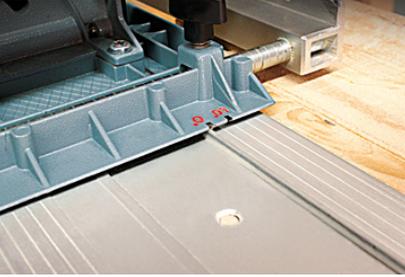


Especially precise, guided cuts are easy to execute because the ZSX-TWIN Ec is compatible with the existing MAFELL guide rail system F.

Perfect height adjustment. The Pertinax glider allows a compensating adjustment to be made for the thickness of the guide rail.

Since a large volume of chips can be produced at cutting depths of up to 400 mm (15 3/4 in.), the ZSX-TWIN Ec can also be used in conjunction with an extraction system.

In addition to the extensive special accessories that are already available for the ZSX 400 / HM, a specially developed carbide-tipped ripping chain delivers perfect results.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195

Accessories / Tools

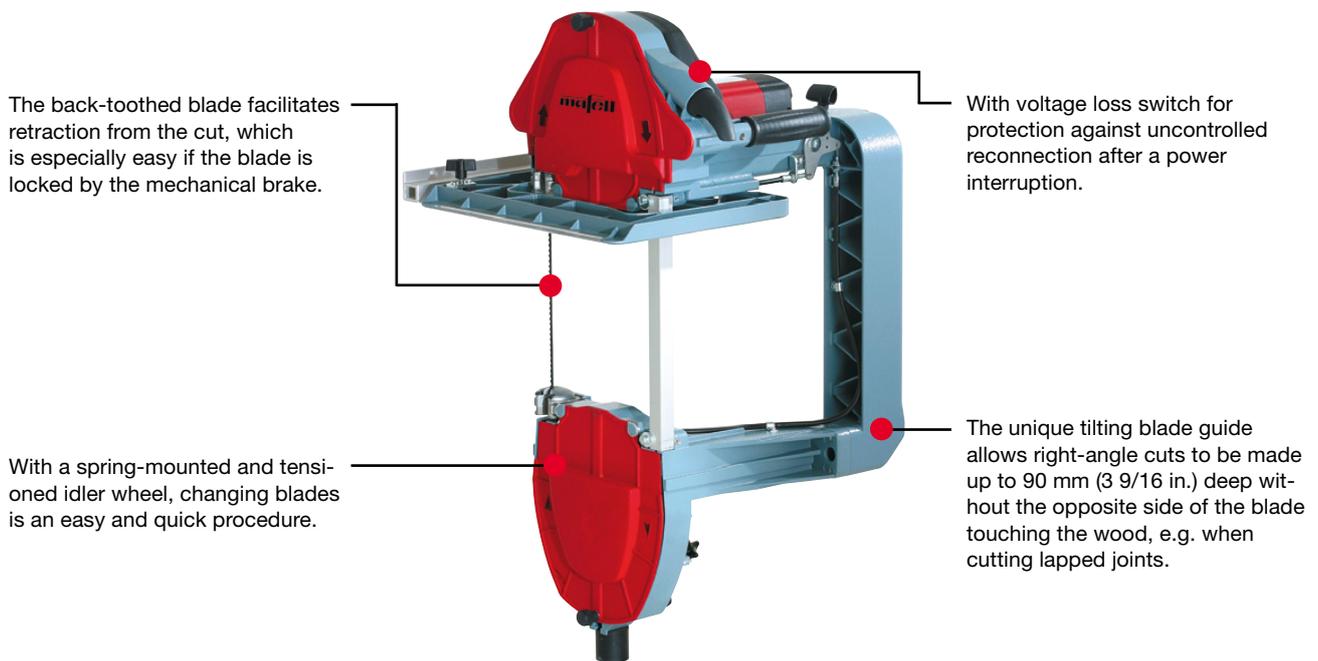
Image	Description	Ref. No.
	Carbide-tipped ripping chain TWIN HM 400	006977
	Carbide-tipped fine-cut saw HM 400	006972
	Carbide-tipped fine-cut saw HM 260	006968
	Saw chain 3/8" 400 P for rip cuts and cross-cutting	006974
	Guide rail 260 HM for 006968	204581
	Guide rail 400 HM for 006972	204582
	Guide rail 400 3/8" for 006974	204583
	Riving knife 260 for 006968	204586
	Riving knife 400 for 006972, 006974	204587
	Sprocket HM for 006968, 006972	204584
	Sprocket 3/8" for 006974	204585
	Universal guide support	202069

Detailed information about our products

www.mafell.com

Portable Band Saw

Z 5 Ec



Product features
<ul style="list-style-type: none"> • With CUPrex, the high-performance motor • Variable digital electronics • Combined brake/off switch • Ball-bearing blade guide • 30° tilting blade side
Application area
<ul style="list-style-type: none"> • Rip cuts and cross-cutting • Curving and profiling • Birdsmouth cuts and lap joints • Compound miter cuts and angled birdsmouths (two-man operation) • Compatible materials include solid wood and laminated beams
Product description
<p>The Z 5 Ec portable bandsaw is the innovative successors to the legendary Z 3. Owing to a new, high-output motor and magnesium die-cast components, its persuasive benefits includes reduced weight (13.7 kg / 30.2 lbs), enhanced performance, higher torque and excellent handling.</p> <p>Exclusive with ball bearing saw band guidance for excellent band running and thus for optimum cutting. Maximum 8 mm (5/16 in.) saw bands for optimum flexibility when curving and profiling purlins and rafters.</p> <p>The Z 5 Ec offers an impressive cutting depth of 305 mm (12 in.). The precision that typifies MAFELL portable bandsaw enables the Z 5 Ec to execute extremely clean and perfectly square cuts.</p> <p>The cooling air of the high-performance motor is utilized to blow away dust from the mark. As a consequence, chips are kept well away from your head and you maintain a clear view of the mark at all times.</p>

Technical data	Z 5 Ec
Cutting depth	305 mm
1 band side tiltable	0 - 30°
Nominal no-load speed	650 - 1550 1/min
Nominal input	2250 W
Weight	13,7 kg
Universal-motor	230 V / 50 Hz
Cutting speed	6,9 - 16,6 m/s
Delivery specification	
Portable Band Saw Z 5 Ec	925301
Delivery scope includes:	
1 Saw band 8 mm (5/16 in.) wide 4 teeth per inch, with front and rear cutting teeth	
1 Saw band 8 mm (5/16 in.) wide 4 teeth per inch	
1 Saw band 6 mm (1/4 in.) wide 4 teeth per inch	
1 Handle for two-man operation	203824
1 Parallel guide fence	039386
1 Mains cable 10 m (32.8 ft)	087863
PG B	
Price list page 11	

Conversion table for inches, pounds, horsepower please find on page 132.

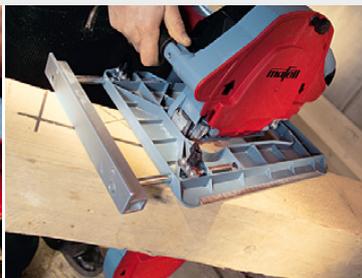


MAFELL benefits: its versatility make the Z 5 Ec ideal machine – especially when renovating old buildings.

The efficient blower ensures a clear view of the mark.

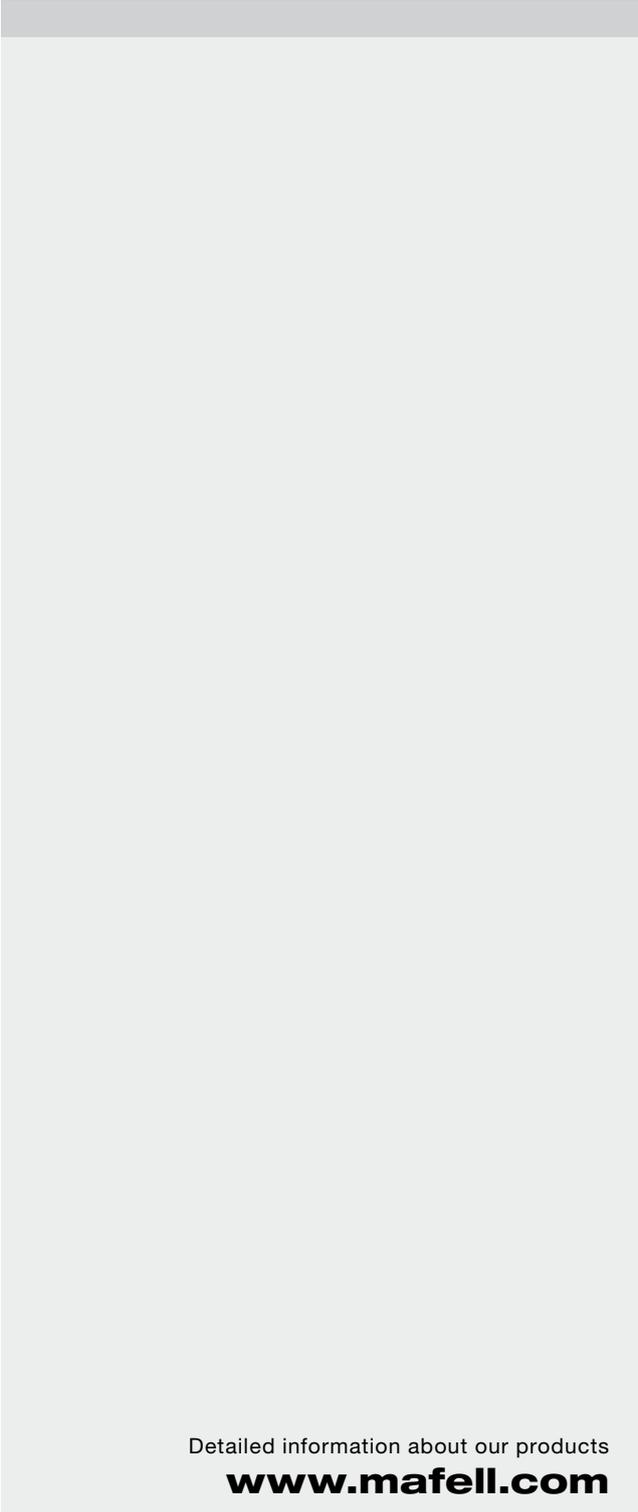
Thanks to high torque, solid wood and cutting depth up to 305 mm (12 in.) respectively is not a problem for the Z 5 Ec.

The mechanical safety brake is engaged by the combined brake/off switch and, like the built-in voltage drop circuit, further enhances safety.



Accessories / Tools

Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft), (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	Trolley	202110
	Z 5 Ec: Band saw blades, 10 pcs. 092333 6 mm (1/4 in.) wide, 6 teeth per inch, for curved cuts	
	Band saw blades, 10 pcs. 092335 6 mm (1/4 in.) wide, 4 teeth per inch, for curved cuts	
	Band saw blades, 10 pcs. 092336 8 mm (5/16 in.) wide, 4 teeth per inch, for mainly straight cuts	
	Band saw blades, 10 pcs. 092337 8 mm (5/16 in.) wide, 4 teeth per inch, with front and rear cutting teeth for easy reversing	

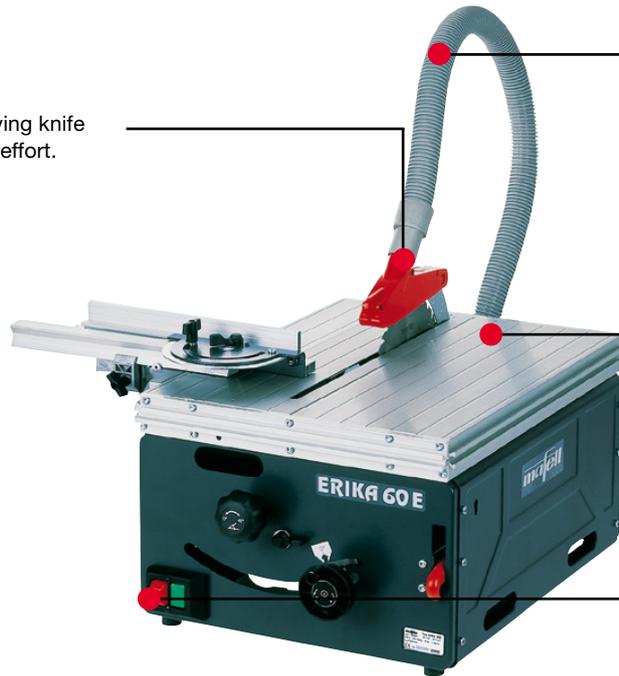


Detailed information about our products
www.mafell.com

Pull-Push Saw

ERIKA 60 E

For hidden cuts – the riving knife can be lowered with no effort.



New type of suction channel revolutionises extraction – for less dust when working.

Maximum cutting height of 61 mm (2 3/8 in.) – with a material thickness of 12 mm (1/2 in.), a cutting length of 215 mm (8 7/16 in.) is achieved.

With voltage loss switch for protection against uncontrolled reconnection after a power interruption.

Product features

- For portable use
- Ultra-light 21 kg (46.3 lbs)
- Precise cuts

Application area

- Cross and rip cuts
- Circular saw bench functionality
- Bevel cuts up to 47°
- Compatible materials include solid wood, board materials, parquet and laminate flooring, aluminum profiles and plastics

Product description

With the optimum air flow in the suction channel, chips can be more easily removed by your dust extractor.

At 21 kg (46.3 lbs), the ultra-lightweight is convenient for use on any floor. Whether in the cellar or in the attic – the ERIKA 60 E can be carried quickly and effortlessly from one workplace to another.

Operation of the ERIKA 60 E is simple in its design concept. Clearly designed operating elements are all arranged logically on the front of the machine. Over 25 years of experience have gone into every detail. Stability where it's needed – on the table! Especially when cutting, the craftsman exerts pressure on the workpiece and thus also on the benchtop.

Attention ERIKA-users: All accessories of the previous models ERIKA 55 and ERIKA 60 can continue to be used on the new ERIKA 60 E.

Technical data

	ERIKA 60 E
Nominal input	1300 W
Cutting height	2 - 61 mm
Cutting height at 45°	2 - 42 mm
Tilt range	-2 - +47°
Cutting length (with material thickness)	217 mm
Weight	21 kg
Cutting speed	44 m/s
Nominal no-load speed	4720 1/min
Universal-motor	230 V / 50 Hz
Table top dimensions	412 x 544 mm

Delivery specification

Pull-Push Saw ERIKA 60 E	971501
---------------------------------	---------------

Delivery scope includes:

1 TCT saw blade 190 x 1,2/2,0 x 30 mm (7 1/2 in.), AT, 36 teeth	092550
1 Universal guide fence with guide fence extension	200941
1 Extraction hose with 2 connectors	093639
1 Push stick	034901
1 Mains cable 4 m (13.1 ft)	

Conversion table for inches, pounds, horsepower please find on page 132.

PG T
Price list page 11



Accessories / Tools

ERIKA 60 E



Accessories / Tools			
No.	Image	Description	Ref. No.
1		Fold-away support	203153
2		Sliding table	201320
3		Fence guide extension with telescopic rod and drop stop	201331
4		Extension and router table for mounting LO 50 E (2 supporting rails required)	203131
5		Router adapter kit	203130
6		Supporting rail 650 mm (25 9/16 in.) long 840 mm (33 1/16 in.) long	201309 201310
7		Universal guide fence with guide fence extension	200941
		Dust bag (without image)	039829

Accessories / Tools			
No.	Image	Description	Ref. No.
8		TCT saw blade 190 x 1,2/2,0 x 30 mm (7 1/2 in.), AT, 36 teeth	092550
8		TCT saw blade 180 x 1,2/1,8 x 30 mm (7 1/16 in.), AT, 30 teeth	092511
8		TCT saw blade 180 x 1,2/2,0 x 30 mm (7 1/16 in.), AT, 56, teeth	092527

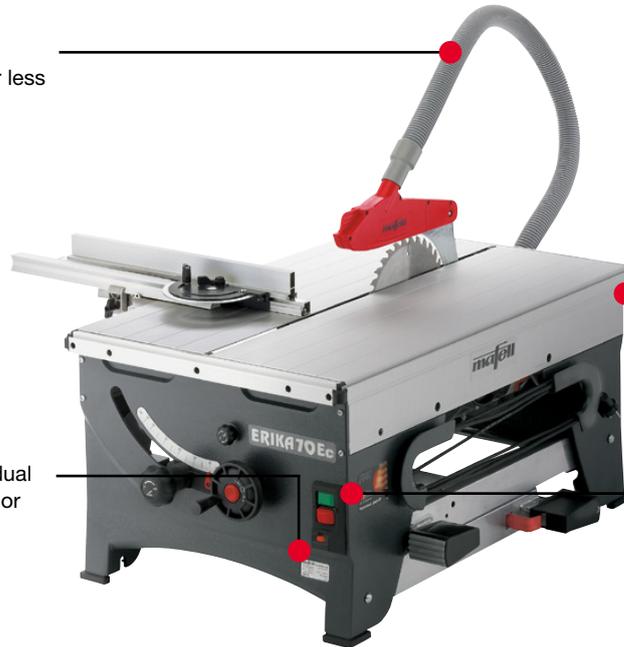
Detailed information about our products

www.mafell.com

Pull-Push Saw

ERIKA 70 Ec

New type of suction channel revolutionises extraction – for less dust when working.



Adjustable speed – for individual processing of wood, plastics or aluminium profiles.

Lightest pull-push saw in its class – for quick and easy transportation.

With voltage loss switch for protection against uncontrolled reconnection after a power interruption.

Product features

- With CUprex, the high-performance motor
- Ultra-light 32 kg (70.5 lbs)
- Built-in /Quickstand\
- Comprehensive range of optional accessories

Application area

- Cross and rip cuts
- Circular saw bench functionality
- Bevel cuts up to 47°
- Compatible materials include solid wood, board materials, parquet and laminate flooring, aluminum profiles and plastics

Product description

The lightest, most stable and most universal machine with the most comprehensive range of optional accessories of 70 mm (2 3/4 in.) pull-push saws on the market: the ERIKA 70 Ec from MAFELL!

The built-in /Quickstand\ sets the ERIKA on 4 stable aluminium legs within seconds. Protective rubber stoppers on the feet also prevent slipping or knocking.

The unique suction channel concentrates the sawdust and extracts it to the rear. Thanks to this new development, your dust extractor is used even more effectively. The result: clean work on a clean construction site! Operation of the ERIKA leaves no questions unanswered. Clearly designed operating elements are all logically arranged on the front of the machine!

Thanks to the E-control electronic system and the corresponding MAFELL original saw blade, it is possible to process other materials in addition to wood, such as plastics or aluminium profiles.

Further advantages of the ERIKA 70 Ec: Extremely stable table profile, tilt range from -3° to 48° and lowerable riving knife.

Technical data

	ERIKA 70 Ec
Cutting height	0 - 72 mm
Cutting height at 45°	0 - 50 mm
Cutting length	340 mm
Nominal input	2250 W
Tilt range	-3 - +48°
Weight	32 kg
Cutting speed	24,7 - 49,5 m/s
Saw blade speed (no load)	2100 - 4200 1/min
Universal-motor	230 V / 50 Hz
Table top dimensions	525 x 818 mm

Delivery specification

Pull-Push Saw ERIKA 70 Ec	971401
Pull-Push Saw ERIKA 70 Ec with extension and router table and 2 supporting rails, 1000 mm	971413
Pull-Push Saw ERIKA 70 Ec with sliding table and fence guide extension with drop stop and clamping	971414

Delivery scope includes:

1 TCT saw blade 225 x 1,8/2,5 x 30 mm (8 7/8 in.), AT, 32 teeth	092460
1 Universal guide fence with fence extension	201611
1 Push stick	034901
1 Allen key 6 mm	093081
1 Aspiration set with 2 connectors	093639
1 Fold-away support /Quickstand\	
1 Mains cable 4 m (13.1 ft)	

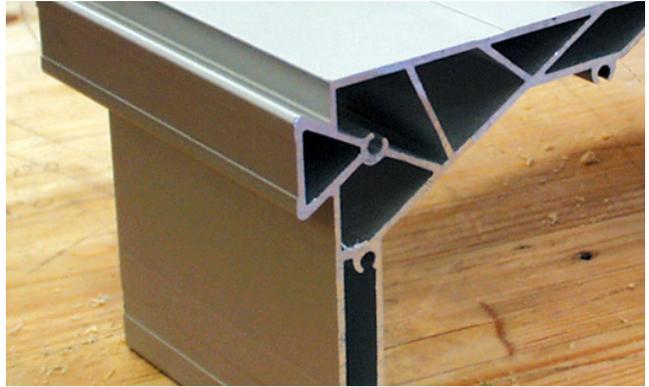
Conversion table for inches, pounds, horsepower please find on page 132.

PG T
Price list page 11





Assembling and disassembling the ERIKA 70 Ec are simple one-man jobs. You can unfold the built-in fold-away support within seconds and without tools.



Thanks to optimum stiffening, the table profile is particularly stable.



Precise and tear-free – this describes the cuts of the new ERIKA 70 Ec Pull-Push Saw.



Do you cut plastic channels, as shown here? No problem with the new ERIKA 70 Ec.



The on-off switch is on the right. You operate the machine only with your right hand. Your left hand remains on the workpiece.



A tap of the foot is all that is required to level the bench on uneven surfaces.

Detailed information about our products

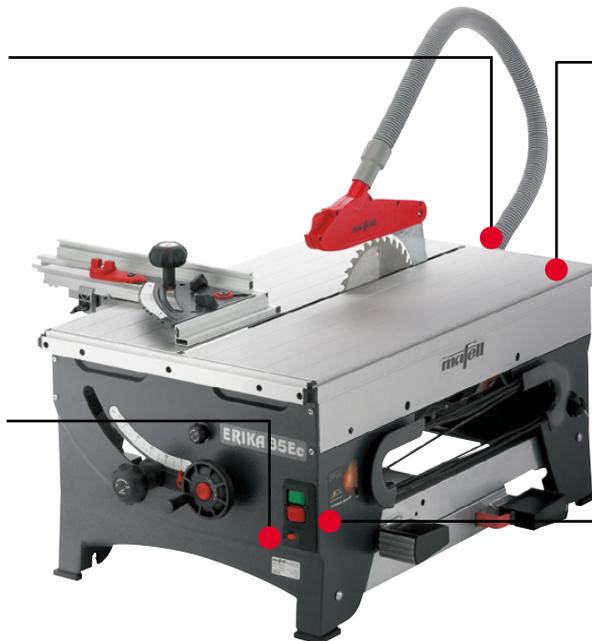
www.mafell.com

Pull-Push Saw

ERIKA 85 Ec

New type of suction channel revolutionises extraction – for less dust when working.

Adjustable speed – for individual processing of wood, plastics or aluminium profiles.



Lightest pull-push saw in its class – for quick and easy transportation.

With voltage loss switch for protection against uncontrolled reconnection after a power interruption.

Product features

- With CUPrex, the high-performance motor
- Ultra-light 34.5 kg (76.1 lbs)
- Built-in /Quickstand\
- Inclusive multi-purpose guide fence MFA
- Cutting height up to 85 mm (3 3/8 in.)

Application area

- Cross and rip cuts
- Circular saw bench functionality
- Bevel cuts up to 47°
- Compatible materials include solid wood, board materials, parquet and laminate flooring, aluminum profiles and plastics

Product description

If the ERIKA 70 Ec cannot handle the required cutting height, there is always its „big sister“ – the ERIKA 85 Ec, ideal for large workpieces with a cutting height of up to 85 mm (3 3/8 in.).

The built-in /Quickstand\ sets the ERIKA on 4 stable aluminium legs within seconds. Protective rubber stoppers on the feet also prevent slipping or knocking.

The unique suction channel concentrates the sawdust and extracts it to the rear. Thanks to this new development, your dust extractor is used even more effectively. The result: clean work on a clean construction site! Operation of the ERIKA leaves no questions unanswered. Clearly designed operating elements are all logically arranged on the front of the machine!

Thanks to the E-control electronic system and the corresponding MAFELL original saw blade, it is possible to process other materials in addition to wood, such as plastics or aluminium profiles.

Further advantages of the ERIKA 85 Ec: Extremely stable table profile, tilt range from -3° to 48° and lowerable riving knife.

Technical data

	ERIKA 85 Ec
Cutting height	-1 - 85 mm
Cutting height at 45°	-1 - 60 mm
Cutting length	430 mm
Nominal input	2500 W
Tilt range	-3 - +48 °
Weight	34,5 kg
Cutting speed	24,9 - 49,7 m/s
Nominal no-load speed	1900 - 3800 1/min
Universal-motor	230 V / 50 Hz
Table top dimensions	525 x 915 mm

Delivery specification

Pull-Push Saw ERIKA 85 Ec	971601
Pull-Push Saw ERIKA 85 Ec with extension and router table and 2 supporting rails, 1000 mm	971613
Pull-Push Saw ERIKA 85 Ec with sliding table and fence guide extension with drop stop and clamping	971614

Delivery scope includes:

1 TCT saw blade 250 x 2,8 x 30 mm (9 13/16 in.), AT, 40 teeth	092465
1 Extension kit with wheels	202889
1 Multi-purpose guide fence MFA with angle locking	203400
1 Push stic	034901
1 Allen key 6 mm	093081
1 Aspiration set with 2 connectors	093639
1 Fold-away support /Quickstand\	
1 Mains cable 4 m (13.1 ft)	

Conversion table for inches, pounds, horsepower please find on page 132.

PG T
Price list page 12





Thanks to the great cutting height and cutting length, the ERIKA 85 Ec ...



... is ideally suited even for cutting solid timber and for carpentry applications.



A tap of the foot is all that is required to level the bench on uneven surfaces.



The /Quickstand\ – for transporting the ERIKA 85 Ec, built-in fold-away support can be stowed away in seconds without tools!



The multi-purpose guide fence allows two mitre cuts without changing ...



... or adjusting the fence. The result: perfect 90° connections.

Detailed information about our products

www.mafell.com

Accessories / Tools

ERIKA 70 Ec / ERIKA 85 Ec



Conversion table for inches, pounds, horsepower please find on page 132.

Accessories / Tools			
No.	Image	Description	Ref. No.
1		Universal guide fence with guide fence extension	201611
2		Multi-purpose guide fence MFA with angle locking	203400
3		Sliding table maximum cutting length 905 mm (35 5/8 in.)	038563
4		Fence guide extension for universal guide fence, 1000 mm (39 3/8 in.) long	038392
5		Fence guide extension for MFA, 1000 mm (39 3/8 in.) long incl. drop stop	203396
6		Connecting piece (for connecting two fence guide extensions)	038393

Accessories / Tools			
No.	Image	Description	Ref. No.
7		Telescopic rod with sheet metal support, 960 mm (37 13/16 in.)	038309
8		Drop stop	038306
9		Clamping piece	038294
10		Extension and router table ERIKA 70 Ec ERIKA 85 Ec (requires 2 support/mounting rails) for mounting Hand Routers LO 50 E + LO 65 Ec	202893 203389

Accessories / Tools		
No. Image	Description	Ref. No.
11 	Router adapter kit	202894
12 	Adapter for molding table, to accommodate other makes	201180
13 	Supporting rail 800 mm (31 1/2 in.)	038291
14 	Supporting rail 1000 mm (39 3/8 in.)	038686
15 	Rip fence guide with micro adjustment	035358
16 	Odd-angle mitre gauge	037214
17 	Adjustable stop	038675
18 	Supporting leg adjustable	038401
19 	Sheet metal support	038410
20 	Extension kit with wheels	202889
21 	Hand Router LO 65 Ec	916901
	alternative: Hand Router LO 50 E	913302
22 	Chip collecting system Cleanbox Starter-Set	203402
	Chip collecting system Cleanbox 5 pieces	203575

Accessories / Tools		
No. Image	Description	Ref. No.
23 	TCT saw blade 225 x 1,8/2,5 x 30 mm (8 7/8 in.), AT, 32 teeth (ERIKA 70 Ec)	092460
23 	TCT saw blade 225 x 1,8/2,5 x 30 mm (8 7/8 in.), AT, 48 teeth (ERIKA 70 Ec)	092462
23 	TCT saw blade 225 x 1,8/2,5 x 30 mm (8 7/8 in.), FT/TT, 68 teeth (ERIKA 70 Ec)	092464
23 	TCT saw blade 250 x 1,8/2,8 x 30 mm (9 13/16 in.), AT, 24 teeth (ERIKA 85 Ec)	092472
23 	TCT saw blade 250 x 1,8/2,8 x 30 mm (9 13/16 in.), AT, 40 teeth (ERIKA 85 Ec)	092465
23 	TCT saw blade 250 x 1,8/2,8 x 30 mm (9 13/16 in.), AT, 60 teeth (ERIKA 85 Ec)	092466
23 	TCT saw blade 250 x 1,8/2,8 x 30 mm (9 13/16 in.), FT/TT, 68 teeth (ERIKA 85 Ec)	092467

Detailed information about our products

www.mafell.com

Everything for drilling



For the joiner

A joiner needs a professional drill that is multi-purpose and high powered at the same time.

The HB E from MAFELL fulfils both these requirements. The MAFELL HB E is a drill, percussion drill and screwdriver all in one.

Experts appreciate our MAFELL power drills, which are light and easy to handle.

Duo-Dowel System



For the carpenter

Our complete range of machines for the carpenter also includes the carpentry drill.

Not only drill holes of all types but also mortises for ring groove cutting tools with conical ring connectors and GEKA connectors can be executed with absolute precision with the carpentry drills from MAFELL.

MAFELL carpentry drills are equipped with powerful motors, with strong guide columns and well-balanced handles and are thus the ideal partner for woodworking.

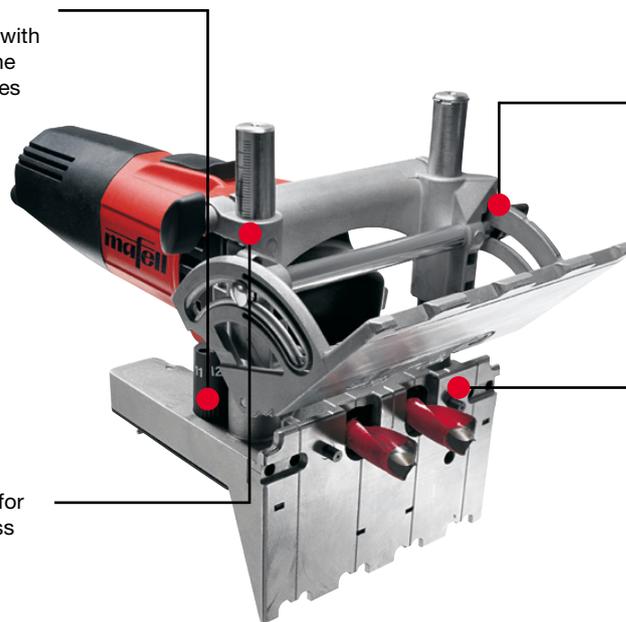
Drilling Station



Duo-Dowel System

DD40 G

A clear scale for adjusting the material thickness and a turret with six stops enable you to reset the DD40 for a variety of thicknesses in a very short time.



The tilting fence is located and fastened on both sides.

Stop system for fast and precise positioning. Retractable stop pins and auxiliary stops facilitate drilling near the edge – without the need for marking.

Continuously variable settings for drilling depth, material thickness and joint angle.

Product features

- Easy to use
- Additional stop pins
- Powerful with 700 W

Application area

- All types of joints from 3 - 12 mm (1/8 in. - 1/2 in.)
- Rows of holes
- Drilling for fittings/hardware
- Ideal for carcass and staircase construction in the workshop and on site
- Compatible materials include solid wood and board materials

Product description

The Duo-Dowel Joints DD40 is the only portable dowel machine on the market. This MAFELL product is unparalleled worldwide.

Thanks to the use of conventional wooden dowels combined with the precise Duo-Dowel Joints DD40, MAFELL has triggered a revolution in portable joining. Furthermore, the Duo-Dowel System DD40 is faster, more precise and less expensive than any other on the market.

The work is fastened exactly by the dowels, so that clamping is much simpler and quicker, or it can be omitted altogether.

MAFELL's DD40 System is an inclusive product package, comprising the MaxiMAX or MidiMAX machine in a MAFELL-MAX case, wooden dowels, a glue bottle, 2 anti-slip mats and drill bits as standard.

Technical data

	DD40 G
Drilling depth	0 - 37 mm
Drill spacing	32 mm
Tilt range	0 - 90 °
Nominal no-load speed	18,500 1/min
Nominal input	700 W
Weight	2,8 kg
Chuck Ø	8 mm
Tool-Ø max.	12 mm
Tool-Ø min.	3 mm

Delivery specification

Duo-Dowel System DD40 G MaxiMAX in the MAFELL-MAX	916002
Duo-Dowel System DD40 G MidiMAX in the MAFELL-MAX	916001

Delivery scope includes:

2 Anti-slip mats, wrapped (265 x 175 mm)	095063
1 Bottle for glue 250 ml (without glue)	095059
1 Allen key with handle	093282
1 Auxiliary stops (assortment)	203473
1 Mains cable 4 m (13.1 ft)	077015
MaxiMAX:	
1 Dowel nozzle Ø 8 mm	095060
1 MAFELL special dowels 6 x 30 mm, 350 pieces	802000
1 MAFELL special dowels 8 x 30 mm, 200 pieces	802010
1 MAFELL special dowels 10 x 40 mm, 100 pieces	802020
2 MAFELL dowel drill bits, carbide-tipped Ø 6, 8, 10 mm	
MidiMAX:	
1 MAFELL special dowels 8 x 30 mm, 200 pieces	802010
2 MAFELL dowel drill bits, carbide-tipped Ø 8 mm	090097

PG A
Price list page 16

Conversion table for inches, pounds, horsepower please find on page 132.

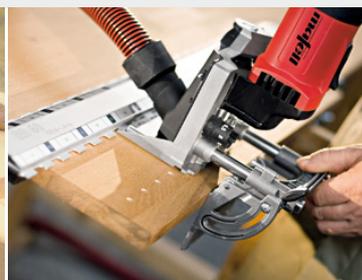


Fast and accurate: Edge-to-edge and mitre corner joints.

For use in staircase construction, in the workshop and on site.

Quick and economical: Making carcasses with the DD40 and dowel template.

Thanks to the auxiliary stops, the edge spacing can be decreased or increased quickly and accurately.



Accessories / Tools

Image **Description** **Ref. No.**



**MAFELL
dowel drill bit**

- Ø 3 mm **090083**
- Ø 5 mm **090089**
- Ø 6 mm **090096**
- Ø 6,1 mm **090120**
- Ø 7 mm **090121**
- Ø 8 mm **090097**
- Ø 8,1 mm **090122**
- Ø 8,2 mm **090123**
- Ø 10 mm **090098**
- Ø 10,1 mm **090124**
- Ø 10,2 mm **090125**
- Ø 12 mm **090099**
- Ø 12,1 mm **090126**
- Ø 12,2 mm **090127**



**MAFELL special dowels
packed**

- 6 x 30 mm, 6 x 350 pcs. **802000**
- 8 x 30 mm, 6 x 200 pcs. **802010**
- 8 x 40 mm, 6 x 120 pcs. **802011**
- 10 x 40 mm, 6 x 100 pcs. **802020**
- 10 x 60 mm, 6 x 50 pcs. **802021**
- 12 x 60 mm, 6 x 40 pcs. **802030**



Anti-slip mats **095063**
2 pieces



Dowel drilling template **203980**
800 mm (31 1/2 in.)
with quick acting
clamping device

**Dowel drilling
template extension** **203434**
1600 mm (63 in.)

**Clamping device
retrofit kit** **203690**
for dowel template 203057
(without image)

Accessories / Tools

Image **Description** **Ref. No.**



Screw clamp
for fixing guide rail
to workpiece

093281

Screw clamp
with stop

093280

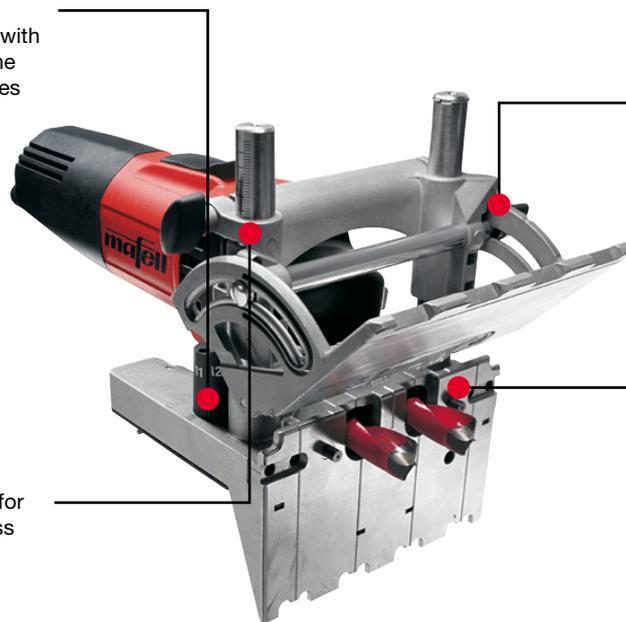
Detailed information about our products

www.mafell.com

Duo-Dowel System

DD40 P

A clear scale for adjusting the material thickness and a turret with six stops enable you to reset the DD40 for a variety of thicknesses in a very short time.



The tilting fence is located and fastened on both sides.

Stop system for fast and precise positioning. Retractable stop pins and auxiliary stops facilitate drilling near the edge – without the need for marking.

Continuously variable settings for drilling depth, material thickness and joint angle.

Product features

- Easy to use
- Additional stop pins
- Powerful with 1000 W

Application area

- All types of joints from 5 - 16 mm (3/16 in. - 5/8 in.)
- Rows of holes
- Drilling for fittings/hardware
- Ideal for carcass and staircase construction in the workshop and on site
- Compatible materials include solid wood and board materials

Product description

The Duo-Dowel Jointer DD40 is the only portable dowel machine on the market. This MAFELL product is unparalleled worldwide.

Thanks to the use of conventional wooden dowels combined with the precise Duo-Dowel Jointer DD40, MAFELL has triggered a revolution in portable joining. Furthermore, the Duo-Dowel System DD40 is faster, more precise and less expensive than any other on the market.

The work is fastened exactly by the dowels, so that clamping is much simpler and quicker, or it can be omitted altogether.

MAFELL's DD40 System is an inclusive product package, comprising the PowerMAX machine in a MAFELL-MAX case, wooden dowels, a glue bottle, 2 anti-slip mats and drill bits as standard.

Technical data

	DD40 P
Drilling depth	0 - 40 mm
Drill spacing	32 mm
Tilt range	0 - 90 °
Nominal no-load speed	13.500 1/min
Nominal input	1000 W
Weight	2,9 kg
Chuck Ø	8 mm
Tool Ø max.	16 mm
Tool Ø min.	5 mm

Delivery specification

Duo-Dowel System DD40 P PowerMAX in the MAFELL-MAX	916010
----------------------------------------------------	--------

Delivery scope includes:

2 Anti-slip mats, wrapped (265 x 175 mm)	095063
1 Bottle for gluel (without glue)	095059
1 Allen key with handle	093282
1 Auxiliary stops (assortment)	203473
1 Dowel nozzle Ø 8 mm	095060
1 Mains cable 4 m (13.1 ft)	077015
1 MAFELL special dowels 8 x 30 mm, 200 pieces	802010
1 MAFELL special dowels 10 x 40 mm, 100 pieces	802020
1 MAFELL special dowels 12 x 60 mm, 40 pieces	802030
2 MAFELL dowel drill bits, carbide-tipped Ø 8, 10, 12 mm	

Conversion table for inches, pounds, horsepower Please find on page 132.

PG A
Price list page 16

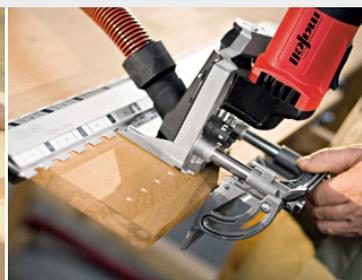


Fast and accurate: Edge-to-edge and mitre corner joints.

For use in staircase construction, in the workshop and on site.

Quick and economical: Making carcasses with the DD40 and dowel template.

Thanks to the auxiliary stops, the edge spacing can be decreased or increased quickly and accurately.



Accessories / Tools

Image **Description** **Ref. No.**



MAFELL-dowel drill bit

- Ø 5 mm **090089**
- Ø 6 mm **090096**
- Ø 6,1 mm **090120**
- Ø 7 mm **090121**
- Ø 8 mm **090097**
- Ø 8,1 mm **090122**
- Ø 8,2 mm **090123**
- Ø 10 mm **090098**
- Ø 10,1 mm **090124**
- Ø 10,2 mm **090125**
- Ø 12 mm **090099**
- Ø 12,1 mm **090126**
- Ø 12,2 mm **090127**
- Ø 14 mm **090128**
- Ø 15 mm **090129**
- Ø 16 mm **090085**
- Ø 16,2 mm **090130**



MAFELL special dowels packed

- 6 x 30 mm, 6 x 350 pcs. **802000**
- 8 x 30 mm, 6 x 200 pcs. **802010**
- 8 x 40 mm, 6 x 120 pcs. **802011**
- 10 x 40 mm, 6 x 100 pcs. **802020**
- 10 x 60 mm, 6 x 50 pcs. **802021**
- 12 x 60 mm, 6 x 40 pcs. **802030**
- 16 x 75 mm, 6 x 30 pcs. **802040**



Anti-slip mats **095063**
2 pieces



Dowel drilling template **203980**
800 mm (31 1/2 in.)
with quick acting
clamping device

**Dowel drilling
template extension** **203434**
1600 mm (63 in.)

**Clamping device
retrofit kit** **203690**
for dowel template 203057
(without image)

Accessories / Tools

Image **Description** **Ref. No.**



Screw clamp
for fixing guide rail
to workpiece **093281**

Screw clamp
with stop **093280**

Detailed information about our products
www.mafell.com

Drilling Machine

HB 1 E

Spindle lock – facilitates changing drill bits.



Torque pre-selection – therefore no refinishing necessary, no over-tightening of screws.

Considerable time-saving – due to the quick-action chuck which is also compatible with the percussion action.

Product features

- Safety friction clutch
- High power reserves

Application area

- Drilling
- Drilling with drilling station
- Compatible materials include solid wood and laminated beams (heavy duty work)

Product description

In view of its rugged construction and high-torque motor, MAFELL drilling machine is ideal for demanding carpentry applications.

With forward/reverse settings and electronic speed control for 70 - 530 1/min, HB E is a very flexible machine.

The 43 mm (1 11/16 in.) steel collar fits into the MAFELL BST drill stand.

Technical data

	HB 1 E
Nominal input	1050 W
Chuck Ø max.	13 mm
1st speed range	70 - 530 1/min
Torque	50 Nm
Weight	2,3 kg
Universal-Motor	230 V / 50 Hz
Collar diameter	43 mm
Chuck capacity	13 mm

Delivery specification

Drilling Machine HB 1 E in the MAFELL-MAX	917201
-------------------------------------------	--------

Delivery scope includes:

1 Supplementary handle	078308
1 Mains cable 4 m (13.1 ft)	

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 17

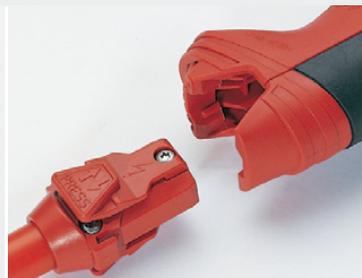


The HB E in use with the MAFELL drilling station.

Electronic speed control and torque presetting.

Plug-in connector.

The HB E is supplied complete with a MAFELL-MAX case.



Accessories / Tools

Image	Description	Ref. No.
	Lewis auger bit with hexagonal shank total length 650 mm (25 9/16 in.)	
	Ø 10 mm (3/8 in.)	090240
	Ø 12 mm (1/2 in.)	090241
	Ø 14 mm (9/16 in.)	090242
	Ø 16 mm (5/8 in.)	090243
	Ø 18 mm (11/16 in.)	090244
	Ø 20 mm (13/16 in.)	090245
	Ø 22 mm (7/8 in.)	090246
	Ø 24 mm (15/16 in.)	090247
	Ø 26 mm (1 in.)	090248
	Ø 28 mm (1 1/8 in.)	090249
	Ø 30 mm (1 3/16 in.)	090250

	Lewis auger bit with hexagonal shank total length 460 mm (18 1/8 in.)	
	Ø 8 mm (5/16 in.)	090251
	Ø 10 mm (3/8 in.)	090252
	Ø 12 mm (1/2 in.)	090253
	Ø 14 mm (9/16 in.)	090254
	Ø 16 mm (5/8 in.)	090255
	Ø 18 mm (11/16 in.)	090256
	Ø 20 mm (13/16 in.)	090257
	Ø 22 mm (7/8 in.)	090258
	Ø 24 mm (15/16 in.)	090259
	Ø 26 mm (1 in.)	090260
	Ø 28 mm (1 1/8 in.)	090261
	Ø 30 mm (1 3/16 in.)	090262

	Lewis auger bit with hexagonal shank total length 320 mm (12 5/8 in.)	
	Ø 6 mm (1/4 in.)	090279
	Ø 7 mm (1/4 in.)	090280
	Ø 8 mm (5/16 in.)	090263
	Ø 9 mm (3/8 in.)	090264
	Ø 10 mm (3/8 in.)	090265
	Ø 12 mm (1/2 in.)	090266
	Ø 14 mm (9/16 in.)	090267
	Ø 16 mm (5/8 in.)	090268
	Ø 18 mm (11/16 in.)	090269
	Ø 20 mm (13/16 in.)	090270
	Ø 22 mm (7/8 in.)	090271
	Ø 24 mm (15/16 in.)	090272
	Ø 26 mm (1 in.)	090273
	Ø 28 mm (1 1/8 in.)	090274
	Ø 30 mm (1 3/16 in.)	090275

Accessories / Tools

Image	Description	Ref. No.
	Case with auger bits 650	093292
	5 pieces auger bits Ø 12, 14, 16, 18, 20 mm	
	Case with auger bits 460	093291
	6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	
	Case with auger bits 320	093290
	6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	

All auger bits shown here:

The lead screw is guaranteed against breakage in compliance with the general guarantee conditions.

Detailed information about our products

www.mafell.com

Drilling Station

BST 460 / BST 320

The tensile force exerted by the polyethylene cable can be individually adjusted, for example, in order to reduce the feed pressure when working horizontally. Once the hole has been drilled, the machine automatically returns to the starting position.



The 80 mm high drill guide comprises six vertically located rollers with an iris-like adjusting mechanism. They enclose the bit without any backlash and thus provide perfect guidance. This arrangement prevents the bit from drifting.

Product features

- Intelligent drill guide
- For series drilling with drilling templates
- Single column
- With stop system thanks to parallel fence (see special accessories)

Application area

- Precision and series drilling
- Compatible materials include solid wood and laminated beams

Product description

MAFELL's drilling station not only offers supreme precision, compared with conventional drill jigs, but is also comprehensively revolutionizing drilling operations in solid wood. Its clever design, based on a rugged and lightweight aluminium column, cannot fail to impress.

The single column offers significant benefits: better view of the mark and drill tip, more space for bit changes, and the jamming that can occur during drilling is a thing of the past.

MAFELL is further demonstrating its ability to originate professional solutions, down to the last detail, and its understanding of practical needs. The continuously adjustable drill guide, with six locating elements, enables the drilling station to achieve unprecedented accuracy. As you would expect from MAFELL, the new drilling station is built exclusively from very high-quality materials, so that a long service life is assured.

Technical data

	BST 460	BST 320
Max. tool diameter at 0°	130 mm	130 mm
Max. drill length	460 mm	320 mm
Max. drilling depth	300 mm	160 mm
Drill guide clamping range	8 - 30 mm	8 - 30 mm
Weight	4,8 kg	4,5 kg
Collar diameter	43 mm	43 mm

Delivery specification:

Drilling Station BST 460	961211
Drilling Station BST 320	961210
Drilling Station BST 460 with Parallel fence, Copying insert, special drill bit for copying insert	961261
Drilling Station BST 320 with Parallel fence, Copying insert, special drill bit for copying insert	961251

Conversion table for inches, pounds, horsepower please find on page 132.

PG AZ
Price list page 17

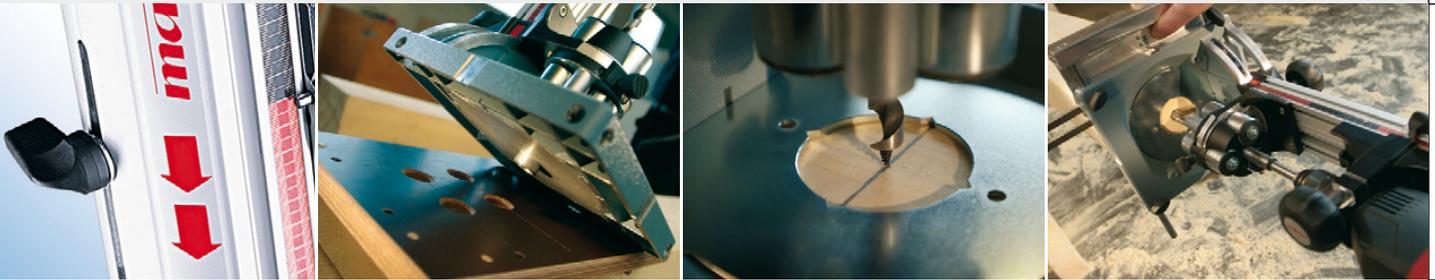


The tensile force exerted by the polyethylene cable can be individually adjusted.

For series drilling and hole patterns, the insertion plate can be replaced by a copying insert. Ideal when working with drilling templates.

Notches to facilitate marking enable you to position the drill with great accuracy. Even when working at an angle, the drill tip always serves as the pivot axis.

The parallel fence, typically used for end grain drilling, is an ideal accessory to the face edge stop for series production purposes.



Accessories / Tools

Image	Description	Ref. No.
	Parallel guide fence with face edge stop	204407
	Drilling machine retainer Ø 57 mm	204476
	Copying insert 24,8 / 18 mm	204290
	Special drill bit Ø 25 mm, total length 320 mm, for creating individual drilling templates	090276
	Lewis auger bit with hexagonal shank for BST 460 total length 460 mm (18 1/8 in.)	
	Ø 8 mm (5/16 in.)	090251
	Ø 10 mm (3/8 in.)	090252
	Ø 12 mm (1/2 in.)	090253
	Ø 14 mm (9/16 in.)	090254
	Ø 16 mm (5/8 in.)	090255
	Ø 18 mm (11/16 in.)	090256
	Ø 20 mm (13/16 in.)	090257
	Ø 22 mm (7/8 in.)	090258
	Ø 24 mm (15/16 in.)	090259
	Ø 26 mm (1 in.)	090260
	Ø 28 mm (1 1/8 in.)	090261
	Ø 30 mm (1 3/16 in.)	090262
	Lewis auger bit with hexagonal shank for BST 460, BST 320 total length 320 mm (12 5/8 in.)	
	Ø 6 mm (1/4 in.)	090279
	Ø 7 mm (1/4 in.)	090280
	Ø 8 mm (5/16 in.)	090263
	Ø 9 mm (3/8 in.)	090264
	Ø 10 mm (3/8 in.)	090265
	Ø 12 mm (1/2 in.)	090266

Accessories / Tools

Image	Description	Ref. No.
	Ø 14 mm (9/16 in.)	090267
	Ø 16 mm (5/8 in.)	090268
	Ø 18 mm (11/16 in.)	090269
	Ø 20 mm (13/16 in.)	090270
	Ø 22 mm (7/8 in.)	090271
	Ø 24 mm (15/16 in.)	090272
	Ø 26 mm (1 in.)	090273
	Ø 28 mm (1 1/8 in.)	090274
	Ø 30 mm (1 3/16 in.)	090275
	Case with auger bits 460 6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	093291
	Case with auger bits 320 6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	093290

**All auger bits shown here:
The lead screw is guaranteed against breakage
in compliance with the general guarantee conditions.**

Detailed information about our products
www.mafell.com

Drilling Station

BST 650 S / BST 460 S

The tensile force exerted by the polyethylene cable can be individually adjusted, for example, in order to reduce the feed pressure when working horizontally. Once the hole has been drilled, the machine automatically returns to the starting position.

The S models can be precisely set to +/- 45° in either direction with the aid of a scale; and locked at 0°. The drill tip – at base plate height – always serves as the pivot axis.



The 80 mm high drill guide comprises six vertically located rollers with an iris-like adjusting mechanism. They enclose the bit without any backlash and thus provide perfect guidance. This arrangement prevents the bit from drifting.

Product features

- Tilts through 45° in either direction
- Intelligent drill guide
- For series drilling with drilling templates
- Single column
- With stop system thanks to parallel fence (see special accessories)
- Head of drill bit means tilting point

Application area

- Precision and series drilling
- Angle drilling
- Compatible materials include solid wood and laminated beams

Product description

MAFELL's drilling station not only offers supreme precision, compared with conventional drill jigs, but is also comprehensively revolutionizing drilling operations in solid wood. Its clever design, based on a rugged and lightweight aluminium column, cannot fail to impress.

The single column offers significant benefits: better view of the mark and drill tip, more space for bit changes, and the jamming that can occur during drilling is a thing of the past.

MAFELL is further demonstrating its ability to originate professional solutions, down to the last detail, and its understanding of practical needs. The continuously adjustable drill guide, with six locating elements, enables the drilling station to achieve unprecedented accuracy. As you would expect from MAFELL, the new drilling station is built exclusively from very high-quality materials, so that a long service life is assured.

Technical data

	BST 650 S	BST 460 S
Max. tool diameter at 0°	130 mm	130 mm
Max. tool diameter at 45°	100 mm	100 mm
Max. drill length	650 mm	460 mm
Max. drilling depth	455 mm	265 mm
Drill guide clamping range	8 - 30 mm	8 - 30 mm
Tilting adjustment, both sides	45 °	45 °
Weight	5,4 kg	5,0 kg
Collar diameter	43 mm	43 mm

Delivery specification:

Drilling Station BST 650 S	961216
Drilling Station BST 460 S	961215
Drilling Station BST 650 S with Parallel fence, Copying insert, special drill bit for copying insert	961281
Drilling Station BST 460 S with Parallel fence, Copying insert, special drill bit for copying insert	961271

Conversion table for inches, pounds, horsepower Please find on page 132.

PG AZ
Price list page 17

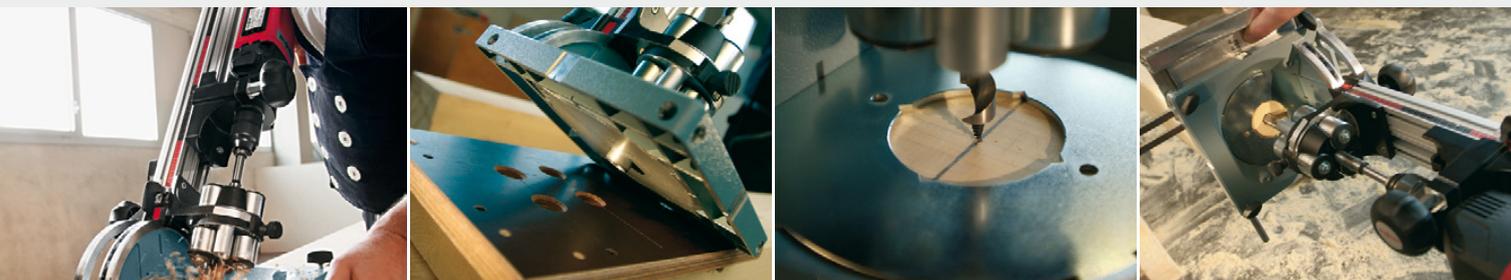


The S models can be precisely set to +/- 45°.

For series drilling and hole patterns, the insertion plate can be replaced by a copying insert. Ideal when working with drilling templates.

Notches to facilitate marking enable you to position the drill with great accuracy. Even when working at an angle, the drill tip always serves as the pivot axis.

The parallel fence, typically used for end grain drilling, is an ideal accessory to the face edge stop for series production purposes.



Accessories / Tools

Image	Description	Ref. No.
	Parallel guide fence with face edge stop	204407
	Drilling machine retainer Ø 57 mm	204476
	Copying insert 24,8 / 18 mm	204290
	Special drill bit Ø 25 mm, total length 320 mm, for creating individual drilling templates	090276
	Lewis auger bit with hexagonal shank for BST 650 S total length 650 mm (25 9/16 in.)	
	Ø 10 mm (3/8 in.)	090240
	Ø 12 mm (1/2 in.)	090241
	Ø 14 mm (9/16 in.)	090242
	Ø 16 mm (5/8 in.)	090243
	Ø 18 mm (11/16 in.)	090244
	Ø 20 mm (13/16 in.)	090245
	Ø 22 mm (7/8 in.)	090246
	Ø 24 mm (15/16 in.)	090247
	Ø 26 mm (1 in.)	090248
	Ø 28 mm (1 1/8 in.)	090249
	Ø 30 mm (1 3/16 in.)	090250
	Lewis auger bit with hexagonal shank for BST 650 S, BST 460 S total length 460 mm (18 1/8 in.)	
	Ø 8 mm (5/16 in.)	090251
	Ø 10 mm (3/8 in.)	090252
	Ø 12 mm (1/2 in.)	090253
	Ø 14 mm (9/16 in.)	090254
	Ø 16 mm (5/8 in.)	090255
	Ø 18 mm (11/16 in.)	090256

Accessories / Tools

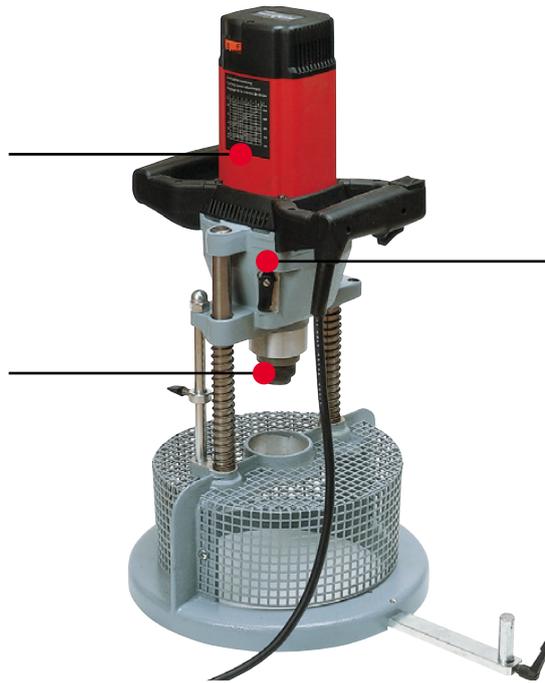
Image	Description	Ref. No.
	Ø 20 mm (13/16 in.)	090257
	Ø 22 mm (7/8 in.)	090258
	Ø 24 mm (15/16 in.)	090259
	Ø 26 mm (1 in.)	090260
	Ø 28 mm (1 1/8 in.)	090261
	Ø 30 mm (1 3/16 in.)	090262
	Lewis auger bit with hexagonal shank for BST 650 S, BST 460 S, BST 320 total length 320 mm (12 5/8 in.)	
	Ø 6 mm (1/4 in.)	090279
	Ø 7 mm (1/4 in.)	090280
	Ø 8 mm (5/16 in.)	090263
	Ø 9 mm (3/8 in.)	090264
	Ø 10 mm (3/8 in.)	090265
	Ø 12 mm (1/2 in.)	090266
	Ø 14 mm (9/16 in.)	090267
	Ø 16 mm (5/8 in.)	090268
	Ø 18 mm (11/16 in.)	090269
	Ø 20 mm (13/16 in.)	090270
	Ø 22 mm (7/8 in.)	090271
	Ø 24 mm (15/16 in.)	090272
	Ø 26 mm (1 in.)	090273
	Ø 28 mm (1 1/8 in.)	090274
	Ø 30 mm (1 3/16 in.)	090275
	Case with auger bits 650 093292 5 pieces auger bits Ø 12, 14, 16, 18, 20 mm	
	Case with auger bits 460 093291 6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	
	Case with auger bits 320 093290 6 pieces auger bits Ø 8, 10, 12, 14, 16, 18 mm	
All auger bits shown here: The lead screw is guaranteed against breakage in compliance with the general guarantee conditions.		
Detailed information about our products www.mafell.com		

Carpentry Drilling Machine

ZB 100 ES

Powerful motor and high quality standard means longer service life.

Tool-less rapid locking – for simple, fast tool changes.



Universal machine – for ring, ring-groove and GEKA dowels.

Product features

- Extremely robust
- Clockwise/counter-clockwise rotation

Application area

- Straight ring groove cutting
- Conical ring groove cutting
- Drilling holes for GEKA toothed plate connectors
- Countersinking and counterboring
- Compatible materials include solid wood and laminated beams

Product description

The ZB 100 ES for precise routing cuts of all conventional dowel types up to 160 mm (6 5/16 in.).

The speed can be infinitely adjusted from 340 to 1450 rpm according to tool diameter.

The special drill mount of the ZB 100 ES offers maximum possible safety.

Naturally we offer the optimum tool for your application: e.g. counter sink, GEKA cutting tool, etc.

Technical data

ZB 100 ES

Drilling depth	100 mm
Nominal no-load speed	340 - 1450 1/min
Universal-motor	230 V / 50 Hz
Nominal input	1200 W
Weight	9 kg

Delivery specification

Carpentry Drilling Machine ZB 100 ES	923601
---------------------------------------------	---------------

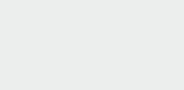
Delivery scope includes:

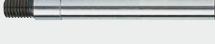
1 Special drill mount for ring-groove cutting tools	039160
without face edge stop	
1 Mounting shaft	039192
for ring-groove cutting tools	
1 Mains cable 10 m (32.8 ft)	

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 18



Accessories / Tools		
Image	Description	Ref. No.
	Drill mount up to 350 mm drilling depth (without focussing device)	039155
	Drill mount up to 475 mm drilling depth (without focussing device)	039195
	Supplementary handle	039203
	Ring-groove cutting tool Size I for 54 - 160 mm (2 1/8 - 6 5/16 in.) ring diameters	091804
	Inside Cutter	020779
	Outside cutter	020711
	Removing cutter	020710
	Knife support individual (3 pcs. required)	038786
	Ring-groove cutting tool for conical ring connectors	091807
	Inside Cutter	020781
	Outside cutter	020783
	Removing cutter	020780
	Knife support individual (3 pcs. required)	038786
	Ring-groove cutting tool GEKA	091809
	Inside Cutter	021136
	Outside cutter	021137
	Removing cutter	021138
	Knife support individual (3 pcs. required)	038785
	Guide pilot pin with depth control ring Ø 11,5 mm (7/16 in.) Ø 12,5 mm (1/2 in.) Ø 13,5 mm (9/16 in.) Ø 15,5 mm (5/8 in.) Ø 17,5 mm (11/16 in.) Ø 19,5 mm (3/4 in.) Ø 21,5 mm (7/8 in.) Ø 23,5 mm (15/16 in.) Ø 25 mm (1 in.)	021303 035892 035893 035894 035895 035896 035897 035898 035899

Accessories / Tools		
Image	Description	Ref. No.
	Head counter sink Ø 50 mm (1 15/16 in.) Ø 60 mm (2 3/8 in.) Ø 70 mm (2 3/4 in.) Ø 80 mm (3 1/8 in.) Ø 100 mm (3 15/16 in.) (without guide and guard ring or guide pilot pin)	090151 090161 090175 090176 090177
	Hexagon shaft for drilling machines with chuck	204174
	Reversible scoring knife (4 required) TCT, 14 x 14 x 2 mm (9/16 x 9/16 x 1/16 in.)	034907
	Reversible knives for head counter sick Ø 50 mm 20.6 (13/16 in.) x 15.5 x 2 mm Ø 60 mm 25.4 (1 in.) x 15.5 x 2 mm Ø 70 mm 30.2 (1 3/16 in.) x 15.5 x 2 mm Ø 80 mm 35.2 (1 3/8 in.) x 15.5 x 2 mm Ø 100 mm 45.2 (1 3/4 in.) x 15.5 x 2 mm	039026 039027 039028 039029 039030
	Guide and guard ring, assembled with Allen key for counter sink Ø 50 - 70 mm (1 15/16 - 2 3/4 in.)	090181
	Guide and guard ring, assembled with Allen key for counter sink Ø 80 - 100 mm (3 1/8 - 3 15/16 in.)	090183
	Guide pilot pin Ø 11,5 mm (7/16 in.) Ø 12,5 mm (1/2 in.) Ø 13,5 mm (9/16 in.) Ø 14,5 mm (9/16 in.) Ø 15,5 mm (5/8 in.) Ø 16,5 mm (5/8 in.) Ø 17,5 mm (11/16 in.) Ø 19,5 mm (3/4 in.) Ø 21,5 mm (7/8 in.)	035570 035571 039387 035572 035573 035574 035575 035577 035578
	Adapter for MK 2 to adapt tools of the Carpentry Drilling Machine K to model ZB	039139
	Ejector for MK 2	093001

Detailed information about our products

www.mafell.com

Carpentry Drilling Machines

ZB 400 E / ZB 600 E

Tool-less rapid locking – for simple, fast drill bit changes.

High quality standard means longer service life.



Swivelling focussing device – for simple drill bit changes.

Product features

- Powerful motor
- Clockwise/counter-clockwise rotation

Application area

- Tilts through 45° in one direction
- Precision and series drilling
- Angle drilling
- Compatible materials include solid wood and laminated beams

Product description

The ZB 400 E / ZB 600 E with poka-yoke rapid locking system for the chuck.

Also equipped with electronic speed control, clockwise/ counterclockwise rotation, two-speed mechanical gear, 63 mm (2 1/2 in.) clamping collar and centring bolt.

Further advantages of the ZB 400 E / ZB 600 E include well-balanced handles for free-hand operation and overhead work and speed adjustment in accordance with drill bit size and separate stop plate bar for drilling depth setting. All these make the drilling machine indispensable for extreme drilling in the hardest timber.

Technical data

	ZB 400 E	ZB 600 E
Drilling depth	350 mm	475 mm
Tilt range	0 - 45 °	0 - 45 °
Nominal no-load speed	340 - 1450 1/min	340 - 1450 1/min
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Nominal input	1200 W	1200 W
Weight	16,5 kg	17,7 kg

Delivery specification

**Carpentry Drilling Machine ZB 400 E with drill mount
max. drilling depth 350 mm (13 3/4 in.)** **922901**

**Carpentry Drilling Machine ZB 600 E with drill mount
max. drilling depth 475 mm (18 11/16 in.)** **923301**

Delivery scope includes:

- 1 Auger bit** **090205**
18 x 650 mm (11/16 x 25 9/16 in.), for ZB 400 E,
drilling depth up to 350 mm (13 3/4 in.)
- 1 Auger bit** **090215**
18 x 820 mm (11/16 x 32 5/16 in.), for ZB 600 E,
drilling depth up to 475 mm (18 11/16 in.)
- 1 Focussing device**
for drill bit diameters 10 - 28 mm (3/8 - 1 1/8 in.)
- 1 Adapter for drill bit with MK 2 chuck**
- 1 Mains cable 10 m (32.8 ft)**

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 19



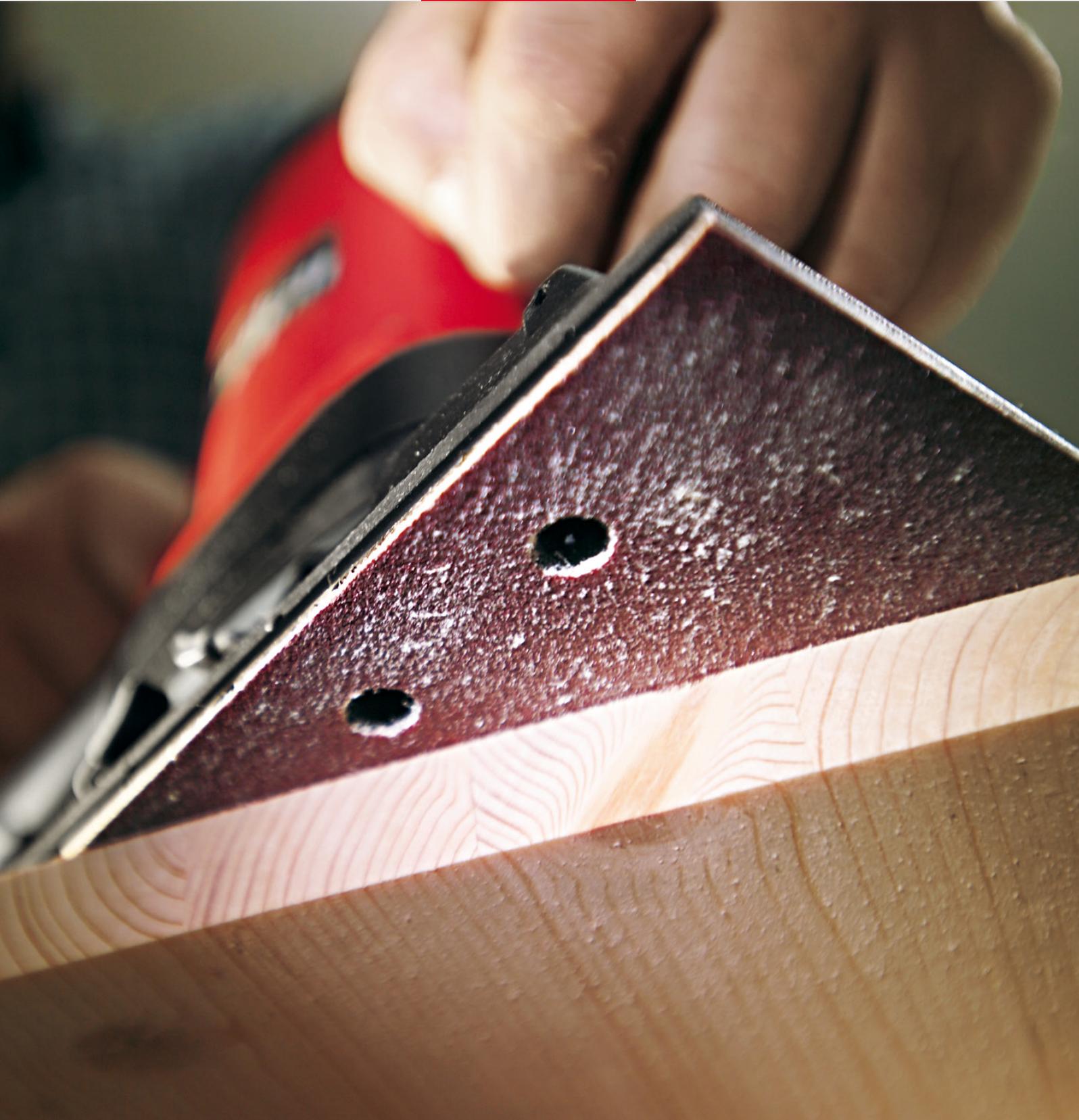
Accessories / Tools

Image	Description	Ref. No.
	Special drill mount for ring-groove cutting tools without face edge stop	039160
	Guide fence	039156
	Auger bit for ZB 400 E total length 650 mm drilling depth up to 350 mm (13 3/4 in.)	
	Ø 10 mm (3/8 in.)	090201
	Ø 12 mm (1/2 in.)	090202
	Ø 13 mm (1/2 in.)	090222
	Ø 14 mm (9/16 in.)	090203
	Ø 15 mm (9/16 in.)	090223
	Ø 16 mm (5/8 in.)	090204
	Ø 17 mm (11/16 in.)	090224
	Ø 18 mm (11/16 in.)	090205
	Ø 20 mm (13/16 in.)	090206
	Ø 21 mm (13/16 in.)	090225
	Ø 22 mm (7/8 in.)	090207
	Ø 24 mm (13/16 in.)	090208
	Ø 25 mm (1 in.)	090226
	Ø 26 mm (1 1/32 in.)	090209
	Ø 28 mm (1 1/8 in.)	090210
	Ø 30 mm (1 3/16 in.)	090211
	Auger bit for ZB 600 E total length 820 mm drilling depth up to 475 mm (18 11/16 in.)	
	Ø 12 mm (1/2 in.)	090212
	Ø 14 mm (9/16 in.)	090213
	Ø 16 mm (5/8 in.)	090214
	Ø 18 mm (11/16 in.)	090215
	Ø 20 mm (13/16 in.)	090216
	Ø 22 mm (7/8 in.)	090217
	Ø 24 mm (13/16 in.)	090218
	Ø 26 mm (1 1/32 in.)	090219
	Ø 28 mm (1 1/8 in.)	090220
	Ø 30 mm (1 3/16 in.)	090221
	Adapter for MK 2 to adapt tools of the Carpentry Drilling Machine K to model ZB	039139
	Ejector for MK 2	093001

Detailed information about our products

www.mafell.com

Everything for sanding



For the carpenter

All MAFELL sanders are equipped with powerful motors. Backed by our knowledge and experience we are continually implementing the requirements of the trade, making MAFELL sanders indispensable tools for carpenters.

For the interior decorator

Certainly there are a large number of sanders available on the market. However, if you compare the machines on offer you will very quickly realise that only very few machines are suitable for professional use. MAFELL sanders have been developed especially for this purpose.

Due to local conditions the task of refinishing is necessary again and again. This is where, for example, the UT 150 E Orbital Disk Sander with its 2-step orbit adjustment can display its strengths to the full. High vibratory movement for high material removal and small vibratory movement for finishing, giving you perfect results.

Orbital Sander



Orbital Disk Sander



Orbital Sander

UVA 115 E

NEW

The UFB-1 is made of an extremely tear-resistant, anti-static PP nonwoven material. The filter's high air throughput reduces the residual dust to as little as 3%.



Vibration absorbers effectively isolate the main and auxiliary handles. The emission value measured at the front handle, for example, is 1.9 m/s² – lower than the threshold value of safety standard EN 60745 (2.5 m/s²). As a consequence, compared with other sanders, the UVA 115 E transmits substantially less vibration to the hands and arms.

Clean all-round. Side channels in the sanding pad make dust extraction even more effective. This arrangement complements the extraction that takes place underneath the sanding plate.

Product features

- In MAFELL-MAX
- With vibration absorber
- High built-in extraction efficiency
- With Delta sanding function

Application area

- Sanding work
- Coarse and fine sanding
- Sanding between coats
- Flat surfaces
- Compatible materials include solid wood and paint

Product description

For sanding plastic or painted surfaces, the speed can be electronically adjusted and locked. This option avoids excessive heat and sticking of the sanding paper.

The armature of the MAFELL motor is new. Together with the new sanding pad mounting, it was designed specifically for the needs of the UVA 115 E. This orbital sander is also very effectively sealed against dust, which contributes to its long service life.

Soft grip surfaces prevent the user's hand from slipping. Besides improving safety, they take the fatigue out of working with the UVA 115 E.

The machine is connected to a dust extraction system by way of a standard 35 mm connector.

Technical data

	UVA 115 E
Nominal power input	450 W
Sanding area	115 x 230 mm
Sanding stroke	2,6 mm
Nominal No. of strokes – no load	4000 - 24000 H/min
Weight	2,7 kg
Universal motor	230 V / 50 Hz

Delivery specification

Orbital sander UVA 115 E	917401
--------------------------	--------

Delivery scope includes:

- 1 Universal filter bag UFB-1
- 1 Sanding pad Delta 105 for quick-fit sanding paper
- 1 Set of abrasive mesh strips Abranet®:
 - 1 x P 60/ P 80/ P 100/ P 120/ P 150/ P 180/ P 240/ P 320
 - 1 Sheet of abrasive mesh Abranet® Delta 105, P 120
 - 1 Interface pad UVA-SA 10 (10 x holes), 115 x 230 mm
 - 1 Interface pad UVA-SA Delta 105

1 Mains cable 4 m (13.1 ft)	087323
-----------------------------	--------

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 21



In corners, on edges and wherever access is restricted – but detail and precision are essential – the Delta sanding pad effortlessly ensures perfect results.

Very fine surfaces or high removal rates – in combination with the appropriate Abranet® abrasive mesh, the UVA is extremely versatile.

Sanding paper easy to change. The MAFELL-MAX case accommodates the UVA 115 E upside-down in a fixed position to facilitate changing.

The mechanical clamp for sanding paper supplied on rolls fixes the paper exactly so that it cannot sag.



Areas

Sanding

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories / Tools

Image	Description	Ref. No.	
	Universal filter bags UFB-1 5 pieces	205570	
	Abrasive mesh Abranet®		
	HD P 60 20 sheets	093410	
	P 80 35 sheets	093411	
	P 100 40 sheets	093412	
	P 120 40 sheets	093413	
	P 150 40 sheets	093414	
	P 180 40 sheets	093415	
	Interface pad UVA-SA 10 (10 holes) 115 x 230 mm	093420	
	Abrasive mesh Abranet® Set Delta 105 3 x P 80 / 3 x P 120 / 3 x P 180	093418	
		Interface pad UVA-SA D Delta 105	093421

*Abranet® abrasive mesh is setting new technical standards as it facilitates dust-free sanding. With around 24,000 holes, the sanding sheet ensures highly efficient dust extraction. The sheet therefore has kept clean. In addition, the health benefits of a dust-free working conditions are not to be overlooked.

Detailed information about our products
www.mafell.com

Orbital Disk Sander

UT 150 E

Light machine – handy and compact in all work positions.



Optimum ergonomics – for non-tiring work in all work positions.

Coarse and fine sander in one machine – with the 2-step orbit adjustment.

Product features

- 2-step orbit adjustment
- Lightweight
- Electronic control

Application area

- Coarse and fine sanding
- Sanding between coats
- Flat surfaces
- Compatible materials include solid wood, paint, veneered surfaces

Product description

Two machines in one! The UT 150 E offers both high surface capacity and the finest of finishes at the same time.

The 2-step orbit adjustment with 3 mm (1/8 in.) setting for fine sanding and 6 mm (1/4 in.) setting for high material removal provides you with a machine for all „wearing“ tasks.

A height-adjustable handle on the front and the rubber surface on the machine housing guarantees optimum ergonomics.

Technical data

	UT 150 E
Sanding disk size	Ø 150 mm
Stroke	3/6 mm
Nominal no-load speed	4000 - 10000 1/min
Nominal input	400 W
Dimensions (W x L x H)	150 x 365 x 190 mm
Weight (with dust bag 0.4 kg)	2,7 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Orbital Disk Sander UT 150 E	914610
-------------------------------------	---------------

Delivery scope includes:

10 Pieces sanding paper velcro fastening, various grain sizes	093315
1 Dust bag	202803
1 Sanding plate with 8 holes (also suitable for 6-holes) with velcro fastening, for flat surfaces	078174
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 21



The 2-step orbit adjustment.



The cling-fit abrasive fleece P 100 or P 280 (available as an optional accessory) is used for refinishing old timber or for intermediate varnish sanding.



The UT 150 E with the MAFELL vacuum unit.



Even curved surfaces can be easily processed. Using the self-fastening intermediate disc provides you with ideal pressure distribution. Your workpiece is sanded evenly and precisely.



Accessories / Tools

Image	Description	Ref. No.
	Sanding paper, velcro fastening pieces, packed	
	Grain 40	093337
	Grain 60	093344
	Grain 80	093345
	Grain 100	093346
	Grain 120	093347
	Grain 180	093348
	Grain 240	093349
Grain 320	093350	
	Cling-fit abrasive fleece P 100 for intermediate varnish sanding	093341
	Cling-fit abrasive fleece P 280 for intermediate varnish sanding	093342
	Cling-fit abrasive mesh 3 pieces, packed	093340
	Sanding plate with 8 holes (also suitable for 6-holes) with velcro fastening, for flat surfaces	078174
	Cling-fit intermediate disk with velcro fastening, for curved surfaces	093343
	Dust-bag holder	093339
	Paper dust bag 5 pieces, packed	093338

Detailed information about our products

www.mafell.com

Everything for planing



For the joiner

For good woodworking results, you need good tools, such as the planers from MAFELL. Powerful, handy, with optimum planing results: the MHU 82 from MAFELL offers you just what you need.

And under long-term load, MAFELL planers have proven that long service life is one of their special strengths.

Electric Hand Planer



For the carpenter

Only MAFELL offer you the right machines for professional planing. The latest technology and many years of experience make MAFELL planers an unbeatable partner in the carpentry trade. Large planing widths, excellent planing results and, last but not least, high output: in short, everything the carpenter's heart desires.

Our quality is your advantage.

Carpenter's Beam Planer



For the interior decorator

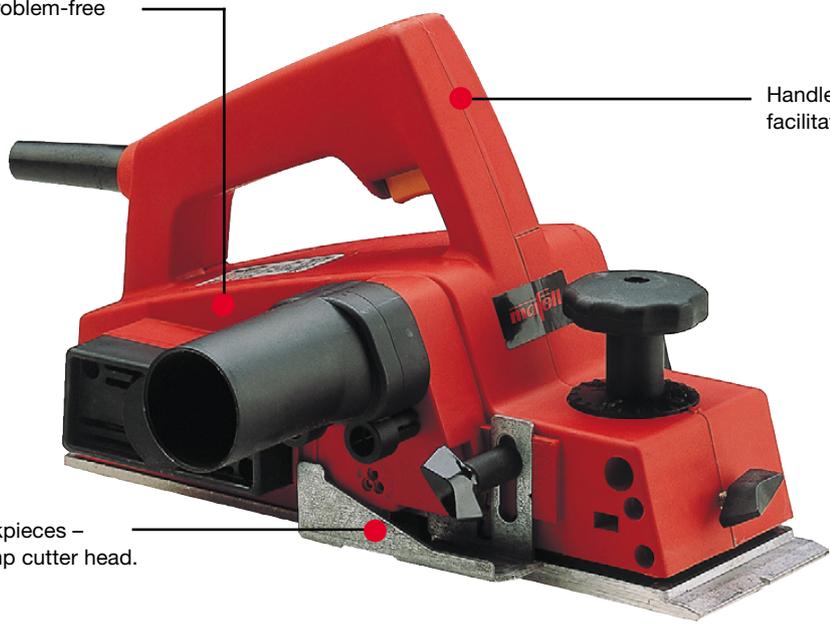
Planing edges, re-rebating doors, on the assembly site or in the workshop: for all this the professional needs machines he can rely on.

Especially for on-site work, e.g. when assembling fitted furniture, professional standards are essential. And that's where MAFELL planers come in.

Electric Hand Planer

MHU 82

Powerful motor – problem-free continuous use.



Handle ideally balanced – facilitates handling.

Clean, smooth workpieces – thanks to 12 000 rpm cutter head.

Product features
<ul style="list-style-type: none"> • Powerful motor • Built-in extraction • Available with fold-away support
Application area
<ul style="list-style-type: none"> • Planing and rebating • Cutting width up to 82 mm • Compatible materials include solid wood
Product description
<p>The Electric Hand Planer for professionals! At 12000 rpm, this model gives your workpiece an impressively clean surface.</p> <p>The performance data of the MHU 82 are something to be proud of: 82 mm (3 1/4 in.) planing width, 22 mm (7/8 in.) rebate depth and planing depth of up to 3 mm (1/8 in.).</p> <p>Also with the MHU 82: The 800 watt (1.1 hp) high-powered motor was developed, produced and assembled at MAFELL to give the planer the right pulling power.</p> <p>With the MHU 82-SET you can even carry out stationary work!</p>

Technical data	MHU 82
Planing width	82 mm
Planing depth	0 - 3 mm
Rebate depth	22 mm
Cutter head diameter	12000 1/min
Nominal input	800 W
Weight	3,4 kg
Cutting speed nominal load	24 m/s
Cutter head diameter	59,5 mm
Universal-motor	230 V / 50 Hz
Delivery specification	
Electric Hand Planer MHU 82	912701
Electric Hand Planer MHU 82 in the MAFELL-MAX	912710
Electric Hand Planer MHU 82 in the MAFELL-MAX (complete with fence, dust bag, bench stand in the MAFELL-MAX)	912714
Delivery scope includes:	
1 Rabbet depth stop	034979
1 Dust extraction connection inner Ø 38 mm (1 1/2 in.)	033679
1 Reversible knives 1 pair, TCT	091696
1 Single-end spanner 8 mm	093258
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 23



Complete as a set in the
MAFELL-MAX. Ref. No. 912714.



Electric Hand Planer MHU 82
with bench stand and retractable
knife guard.



Chips are simply removed by
suction.



Re-rebating of a door with the
MHU 82.



Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories/tools

Image	Description	Ref. No.
	Angle fence assembled	033096
	Fence with straight angle assembled	036858
	Reversible knives 1 pair, TCT	091696
	Reversible knives 3 pair, TCT	091697
	Clamping device 1 piece, for Ref. No. 091696, 091697	035101
	Bench stand with retractable knife guard and 2 screw clamps	033110
	Screw clamp for bench stand	093232
	Dust bag	033707
	Hose connector inner Ø 38 mm (1 1/2 in.)	033679

Detailed information about our products

www.mafell.com

Carpenter's Beam Planers

ZH 205 Ec / ZH 245 Ec

High quality standard means lower machine costs and longer service life.



Practical lightweight, ergonomic handle ensures exemplary handling.

Disposable reversible knife system means no more timeconsuming planing knife adjustment.

With guide rollers - for maximum utilisation of the planing width.

Product features

- With CUprex, the high-performance motor
- Unrivalled power development
- Excellent chip ejection
- Practical handle arrangement

Application area

- Cutting width up to 208 mm (ZH 205 Ec)
- Cutting width up to 248 mm (ZH 245 Ec)
- Compatible materials include solid wood

Product description

This one really eats its way trough! With unique, stepless planing depth from 0 to 4 mm (0 - 3/16 in.).

The new chip ejector with excellent chip removal via enhanced air flow and new air duct makes blockages due to wet chips a thing of the past!

With its lightweight design, the solid cast construction weighs only 13.4 kg (29.5 lbs) and 12.5 kg (27.6 lbs).

The MAFELL light current motor offers ample reserves, making planing a whole new experience.

As with most MAFELL machines, the intelligent control electronics keep watch in the background. For smooth start-up and constant speed under load, speed reduction to protect the machine without load and overload protection.

Technical data

	ZH 205 Ec	ZH 245 Ec
Planing width	208 mm	248 mm
Planing depth	0 - 4 mm	0 - 4 mm
Nominal no-load speed	8500 1/min	8500 1/min
Cutting speed	32,9 m/s	32,9 m/s
Nominal input	2300 W	2500 W
Weight	12,5 kg	13,4 kg
Cutter head diameter	74 mm	74 mm
Universal-motor	230 V / 50 Hz	230 V / 50 Hz

Delivery specification

Carpenter's Beam Planer ZH 205 Ec	925201
Carpenter's Beam Planer ZH 245 Ec	925101

Delivery scope includes:

1 Reversible knives 1 pair, HL	
1 Single-end spanner 8 mm	093258
1 Mains cable 10 m (32.8 ft)	087378

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 23

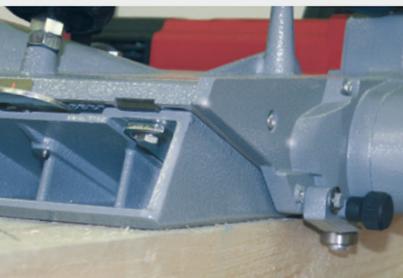


With guide rollers - for maximum utilisation of the planing width.

The immense chip volume is blown out with the aid of an enhanced air-flow with new rotating air duct.

Supreme power for chip removal from 0 to 4 mm (0 - 3/16 in.).

The tool for replacing knives is mounted directly on the machine.



Areas

Sawing

Drilling

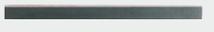
Sanding

Planing

Mortising

Special

Miscellaneous

Accessories/tools		
Image	Description	Ref. No.
	ZH 205 Ec:	
	Reversible knives 1 pair, HL	091897
	Reversible knives 3 pair, HL	091898
	Clamping device 1 piece for 091897, 091898	203325
	Knife support 1 pair for 091897, 091898	091797

Accessories/tools		
Image	Description	Ref. No.
	ZH 245 Ec:	
	Reversible knives 1 pair, HL	091895
	Reversible knives 3 pair, HL	091896
	Clamping device 1 piece for 091895, 091896	203319
	Knife support 1 pair for 091895, 091896	091796

Detailed information about our products
www.mafell.com

Carpenter's Beam Planer

ZH 320 Ec

High quality standard means lower machine costs and longer service life.



Practical lightweight, ergonomic handle ensures exemplary handling.

With guide rollers - for maximum utilisation of the planing width.

Disposable reversible knife system means no more time-consuming planing knife adjustment.

Product features

- With CUprex, the high-performance motor
- Excellent chip ejection
- Practical handle arrangement

Application area

- Cutting width up to 320 mm
- Compatible materials include solid wood

Product description

The new chip ejector with excellent chip removal via enhanced air flow and new air duct makes blockages due to wet chips a thing of the past!

Thanks to the development of the 2700 watt (3.6 hp) motor, it is now possible to achieve a 320 mm (12 5/8 in.) planing width with a light current motor.

Due the consistent lightweight design, the solid cast construction weighs only 14 kg (30.9 lbs).

As with most MAFELL machines, the intelligent control electronics keep watch in the background. For smooth start-up and constant speed under load, speed reduction to protect the machine without load and overload protection.

After switching off, the highly efficient tool brake stops the cutter head in seconds. Just a detail, but important for your continued safety after planing.

Technical data

	ZH 320 Ec
Planing width	320 mm
Planing depth	0 - 3 mm
Nominal no-load speed	8500 1/min
Cutting speed	32,9 m/s
Nominal input	2700 W
Weight	14 kg
Cutter head diameter	74 mm
Universal-motor	230 V / 50 Hz

Delivery specification

Carpenter's Beam Planer ZH 320 Ec	924401
-----------------------------------	--------

Delivery scope includes:

1 Reversible knives 1 pair, HL	091791
1 Single-end spanner 8 mm	093258
1 Mains cable 10 m (32.8 ft)	087378

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 23

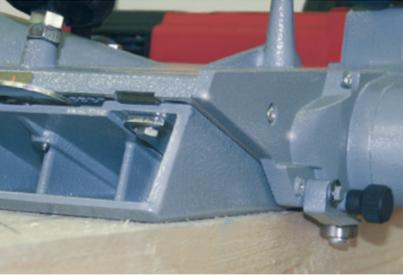


With guide rollers - for maximum utilisation of the planing width.

New chip ejector with extractor connection for 75/80 mm (2 15/16 / 3 1/8 in.) extraction hose.

Energy-saving work due to ergonomic handle design.

The immense chip volume is blown out with the aid of an enhanced air-flow with new rotating air duct.



Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories/tools

Image	Description	Ref. No.
	Reversible knives 1 pair, HL	091791
	Reversible knives 3 pair, HL	091889
	Clamping device 1 piece for 091791, 091889	202295
	Knife support 1 piece for 091791, 091889	091790

Detailed information about our products

www.mafell.com

Everything for Mortising



For the joiner

Whatever the job in hand – you can't go wrong with a biscuit joiner or Hand Router from MAFELL. With its unsurpassed 2600 watt (3,48 hp) motor, Hand Router LO 65 Ec provides enormous power and exact guidance at the same time.

You'll be amazed at the results. Don't do without the best machines available on the market – choose MAFELL.

For the carpenter

This is where our close contact with the carpentry trade comes into its own. The combination of low weight with extremely high output and optimum handling in all work positions makes these MAFELL machines a reliable partner for every carpenter's workshop.

Modern woodworking is seeing an increasing use of gusset plate joints or concealed beam joints by means of girders. These complex joints can only be processed with technically sophisticated machines. The Chain Mortiser LS 103 Ec can be quickly and easily converted to a slot mortiser. That way mortising depths of up to 500 mm (19 11/16 in.) can be achieved in order to meet top wood engineering standards.

For the professional craftsman

Stylish profiling, flush trimming of protruding veneers, machining of solid timber, the list of areas of applications for the Hand Router LO 50 E goes on and on.

Made of high quality components, MAFELL hand routers are the product of quality and many years of experience. Designed for continuous use and a long service life.

Hand Router



Chain Mortiser

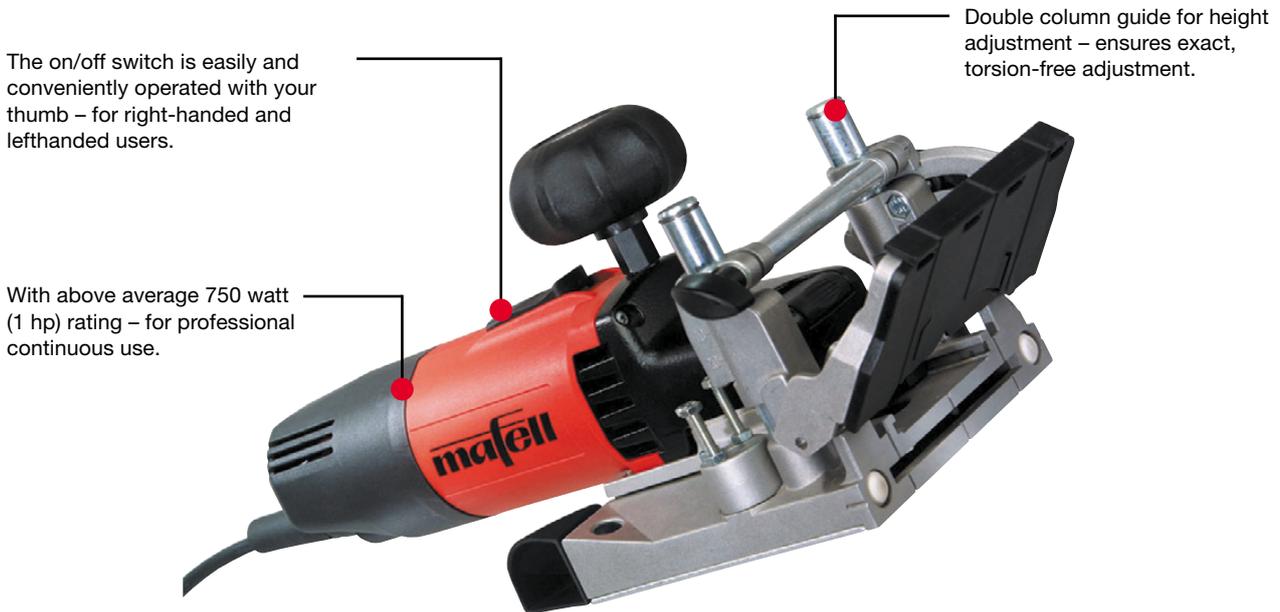


Hand Router



Biscuit Joiner

LNF 20



Product features

- Ergonomic design
- With revolving depth stop
- In MAFELL-MAX

Application area

- Cutting slots for biscuits
- Cutting slots for wood patches
- Compatible materials include solid wood, board and carcass materials

Product description

Now with extra features...and all conveniently integrated in the MAFELL-MAX. Ideal for the biscuit jointing fanatics amongst you!

One turn of the revolving depth control turret adjusts the tool to all conventional flat dowel sizes.

The tilt stop can be fixed with detents of 0°, 22.5°, 45°, and 67.5° up to 90°.

Torsion-free cast angle stop and height adjustment make your work easier while 2 sturdy adjusting bolts keep your setting constant even after your 100th cut.

All you need is „on board“ in the MAFELL-MAX: practical containers for your dowels, space for the optional pitch pocket cutter, anti-slip mat and of course your LNF 20.

Technical data

	LNF 20
Cutting tool Ø	100 mm
Cutting depth	19 mm
Tilt range	0 - 90 °
Nominal no-load speed	9800 1/min
Nominal input	750 W
Weight	3,1 kg
Cutting speed	28,7 m/s
Universal-motor	230 V / 50 Hz

Delivery specification

Biscuit Joiner LNF 20 in the MAFELL-MAX	915601
-----------------------------------------	--------

Delivery scope includes:

1 Disk cutter	076905
TCT, 100 x 4 x 22 mm (3 15/16 x 3/16 x 7/8 in.), 6 teeth	
1 Ejection pipe	076954
1 Hose connector	076955
1 Dust bag	076956
1 Screwdriver for recessed-head screws	093283
1 Face pin spanner	093119
1 Mains cable 4 m (13.1 ft)	076953

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 25



Mitred joints with the LNF 20.

Groove height adjustment via revolving depth control turret or via scale.

The LNF 20 is supplied in the practical MAFELL-MAX.

Available as a special accessory for the LNF 20: Pitch pocket cutter, Ref. No. 091793



Areas

Sawing

Drilling

Sanding

Planing

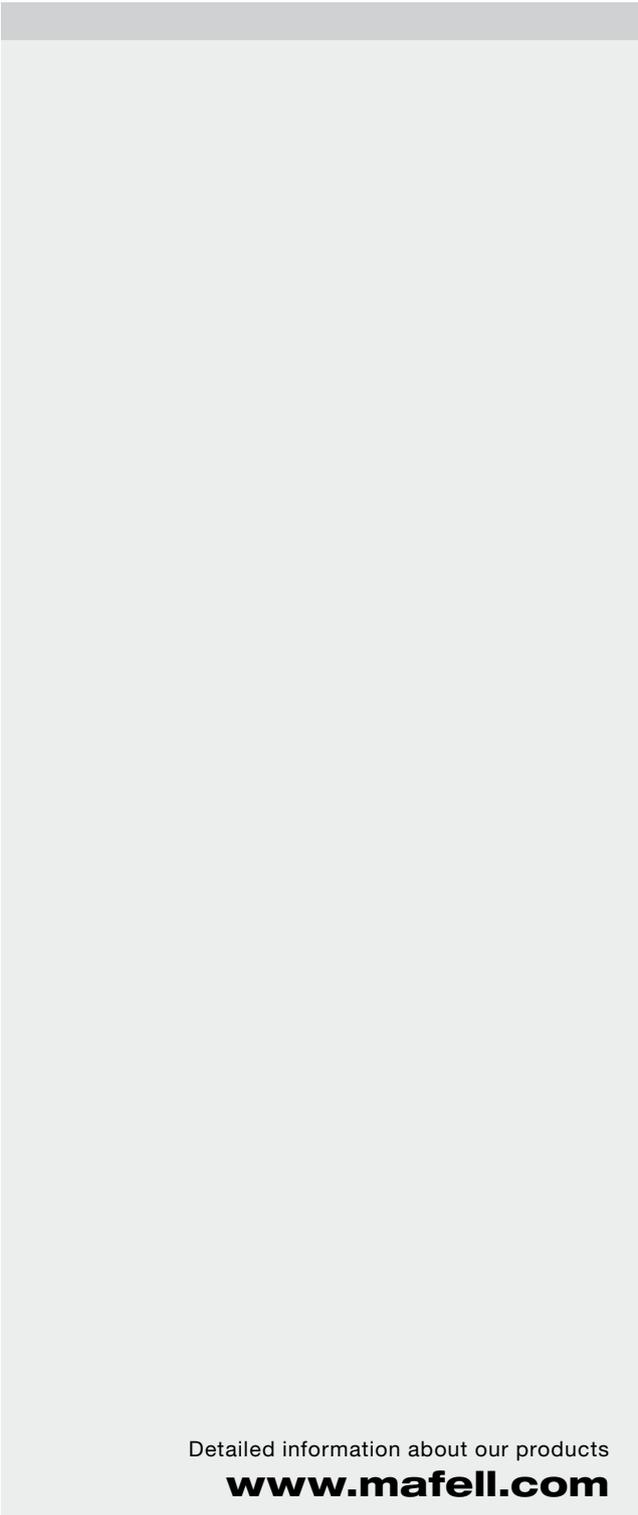
Mortising

Special

Miscellaneous

Accessories / Tools

Image	Description	Ref. No.
	Disk cutter 100 x 4 x 22 mm (3 15/16 x 3/16 x 7/8 in.), 6 teeth, TCT	076905
	Pitch pocket cutter 100 x 8 x 22 mm (3 15/16 x 5/16 x 7/8 in.), 2 teeth, TCT	091793
	Perspex base plate for use with the pitch pocket cutter	076965
	Anti-slip mats 2 pieces	095063

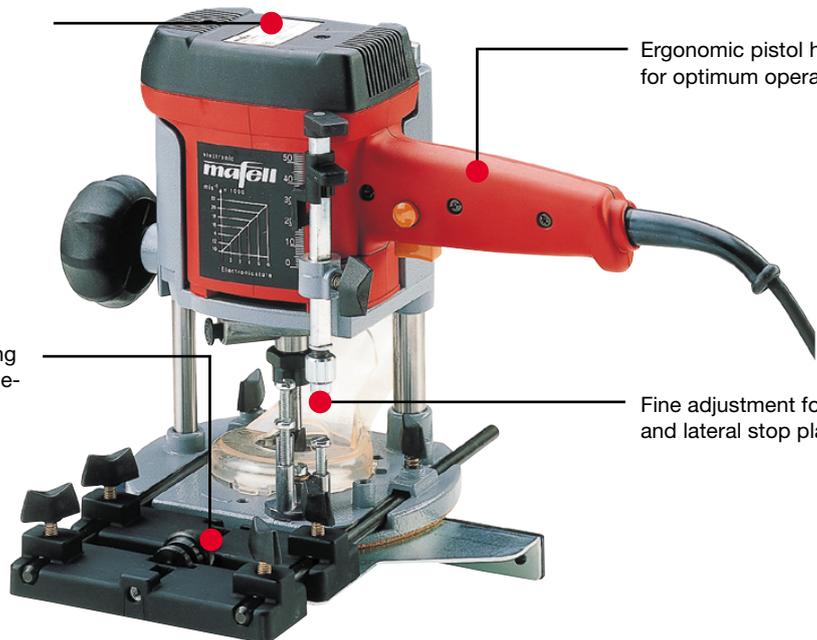


Detailed information about our products
www.mafell.com

Hand Router LO 50 E

The control electronics keep the pre-set speed constant and guarantee smooth start-up.

Individual setting of speed, cutting depth and guide – for a wide variety of applications.



Ergonomic pistol handle – for optimum operation.

Fine adjustment for cutting depth and lateral stop plate.

Product features

- **Lightweight**
- **With revolving depth stop**
- **Guide track and router guide device for cutting housings in staircase strings as optional accessory**

Application area

- Compatible materials include solid wood and board materials, for lettering, ornamental and decorative work, shaping, cutting grooves and rebating

Product description

The „freehand“ router for individual use. Whether you use it for lettering, ornaments or decorations or „only“ for chamfering, mortising, cutting grooves or rebating - with the LO 50 E it's all within your grasp!

The LO 50 E is equipped with a 50 mm (1 15/16 in.) cutting depth and a speed of 10.000 to 22.000 rpm.

The pistol handle is ideal for keeping the machine „on track“ even for the most difficult cutting work.

The fine adjustment of the cutting depth can be fixed exactly, making refinishing an exception.

To replace the cutter quickly and easily, simply turn the LO 50 E upside down. A standard spindle locking mechanism is fitted as a matter of course.

Technical data

LO 50 E

Cutting depth	0 - 50 mm
Nominal no-load speed	10000 - 22000 1/min
Tool fastening Ø	6 - 8 mm
Nominal input	1000 W
Weight	2,7 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Hand Router LO 50 E in the MAFELL-MAX	913302
----------------------------------------------	---------------

Delivery scope includes:

1 Parallel guide fence with fine adjustment	
1 Template guide Ø 20 mm	200693
1 Collet 8 mm	076441
1 Chip collector	038986
1 Single-end spanner 19 mm	093011
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 25



Stylish profiling with the spacer disk cutter.

A clean and tidy combination: the LO 50 E and S 50 M from MAFELL.

Adjusting the cutting depth by means of three-position revolving depth control turret.

The LO 50 E is supplied in the practical MAFELL-MAX case.



Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories / Tools

Image	Description	Ref. No.
	Router guide device for cutting housings in staircase strings with 1 m (3.3 ft) guide track and 2 screw clamps	200500
	Guide track 1 m (3.3 ft) long, with adapter	200690
	Screw clamp for guide track	093249
	Sliding bevel for guide track	038108
	Collet 6 mm (1/4 in.) 8 mm (5/16 in.) 1/4"	093270 076441 093271
	Template guide Ø 10,8 mm (7/16 in.) Ø 13,8 mm (9/16 in.) Ø 20 mm (13/16 in.) Ø 27 mm (1 1/16 in.) Ø 30 mm (1 3/16 in.) Ø 40 mm (1 9/16 in.)	200694 200695 200693 038988 038971 038989

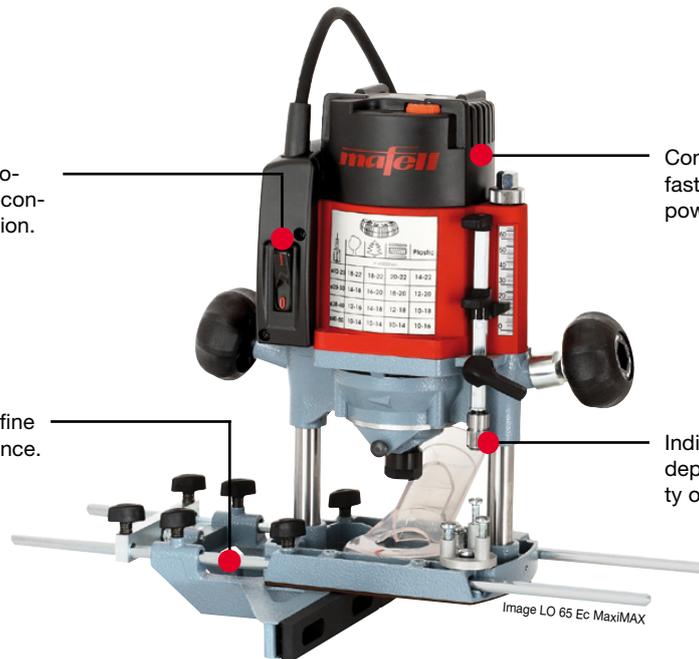
Detailed information about our products

www.mafell.com

Hand Router LO 65 Ec

With voltage loss switch for protection against uncontrolled reconnection after a power interruption.

Twin-guide parallel fence with fine adjustment – for precise guidance.



Considerable time-saving – due to fast cutting with the CUprex high-powered 2600 watt (3.0 hp) motor.

Individual setting of speed, cutting depth and guide – for a wide variety of applications.

Image LO 65 Ec MaxiMAX

Product features

- With CUprex, the high-performance motor
- 65 mm (2 9/16 in.) cutting depth
- With revolving depth stop
- Router guide device for cutting housings in staircase strings as optional accessory

Application area

- Profiling and cutting grooves
- Cutting for fittings/hardware
- Dovetail joints (Lignatool, Arunda)
- For routing stair housings
- Compatible materials include solid wood and board materials

Product description

Sheer power and high torque take on a whole new meaning with the new high-output CUprex motor. It offers performance-optimized digital electronics and newly developed control technology. Its speed is continuously variable according to the nature of the material and application.

The coordinated, optimised components enable the machine to be used for filigree work requiring absolute precision. The fine adjustment of the cutting depth can be fixed exactly, making refinishing an exception.

The groove in the base plate permits flush trimming of edge bands without any additional attachments.

To replace the cutter quickly and easily, simply turn the LO 65 Ec upside down. A standard spindle locking mechanism is fitted as a matter of course.

Technical data

	LO 65 Ec
Cutting depth	0 - 65 mm
Nominal input	2600 W
Weight	5,7 kg
Nominal no-load speed	10000 - 22000 1/min
Chuck Ø	1/2" / 6 - 12 mm
Universal-motor	230 V / 50 Hz

Delivery specification

Hand Router LO 65 Ec MaxiMAX in the MAFELL-MAX	916901
Hand Router LO 65 Ec MidiMAX in the MAFELL-MAX	916950

Delivery scope includes:

1 Parallel guide fence with fine adjustment (MaxiMAX)	204310
1 Template guide Ø 30 mm	038971
1 Collet 8 mm (MaxiMAX)	093256
1 Adapter with internal shaft M 12 x 1	201575
1 Chip collector (MaxiMAX)	204325
1 Revolving depth control turret (MaxiMAX)	
1 Single-end spanner 22 mm	093012
1 Mains cable 4 m (13.1 ft)	087885

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 25



The LO 65 Ec in daily use.

Adjusting the cutting depth by means of three-position revolving depth control turret.

The output of the digital electronic CUprex motor is continuously variable to suit a wide range of materials and cutter diameters.

Available as a special accessory, the router guide device for cutting housings in staircase strings can execute all cuts up to 640 x 60 mm.



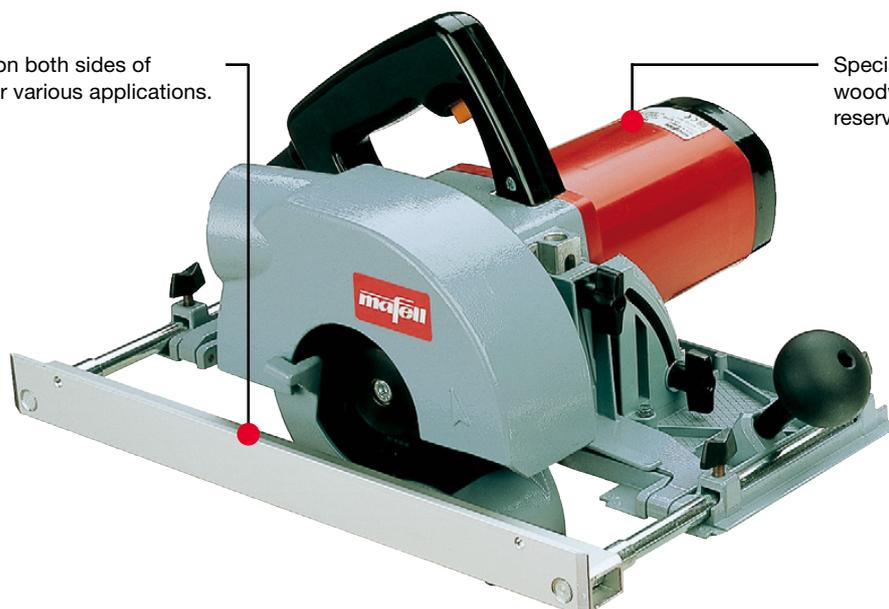
Accessories / Tools		
Image	Description	Ref. No.
	Router guide device for cutting housings in staircase strings with 1 m (3.3 ft) guide track and 2 screw clamps	200500
	Guide track 1 m (3.3 ft) long, with adapter	039100
	Screw clamp for guide track	093249
	Sliding bevel for guide track	038108
	Roller edge guide	038987
	Template guide Ø 27 mm (1 1/16 in.)	038988
	Ø 30 mm (1 3/16 in.)	038971
	Ø 40 mm (1 9/16 in.)	038989
	Collet 6 mm (1/4 in.)	093257
	8 mm (3/8 in.)	093256
	10 mm (1/2 in.)	093255
	12 mm (1/2 in.)	093254
	1/2"	093276
	1/4"	093279

Accessories / Tools		
Image	Description	Ref. No.
	Adapter for router bit with internal shaft M 10	039363
	Adapter for router bit with internal shaft M 12 x 1	201575
<p>Router guide device for cutting housings in staircase strings: This optional accessory from MAFELL is an ideal tool for carpenters making staircases to individual specifications. Locking devices allow it to be set for working lengths of 640 mm (25 3/16 in.) and widths of 60 mm (2 3/8 in.). The device is designed to execute the full range of recesses arising in staircase construction. The groove width can be adjusted according to the scale, while the lateral adjustment permits cutting to exact markings. The fact that the rail and machine can be moved together is beneficial if repeated changes in position are required: the machine need not be detached from the rail. The delivery specification includes two screw clamps for securing the guide rail in position; another optional accessory is an exact sliding bevel for the staircase constructor.</p>		
<p>Detailed information about our products www.mafell.com</p>		

Groove-Cutting Machine

NFU 32

Guide track on both sides of machine – for various applications.



Special machine, designed for woodwork cuts – for high power reserves and long service life.

Product features

- Special machine for grooves
- Expanding grooving cutter

Application area

- Lengthwise and crosswise grooves
- Frieze blocks (with guide)
- Panels in half-timbered buildings, false floors
- Angled grooves up to 45°
- Compatible materials include solid wood and board materials

Product description

The NFU 32 is unique, unrivalled and only available from MAFELL!

The ideal machine for longitudinal or transverse grooves, barge boards let into rebated rafters, panel fillings in timber-framed buildings or intermediate floors.

With a maximum cutting width of 26.5 mm (1 1/16 in.) and depth of 32 mm (1 1/4 in.), the NFU 32 can execute most types of grooving work. The cutting depth can be set steplessly. The cutting width is set quickly and easily with eccentric disks.

Details such as the exact column guide or the torsion-free router table guarantee a 100 % exact cutting result.

The secret: With the optional guide track, the cutting angle can be set in seconds. Simply set the machine on the rule and cut the groove – no more time-consuming measuring and scoring of the angle!

Technical data

	NFU 32
Cutting depth	0 - 32 mm
Tilt range	0 - 45 °
Nominal no-load speed	4500 1/min
Cutting speed nominal load	16 m/s
Nominal input	1600 W
Weight	8,0 kg
Cutting tool - as standard	125 x 15,4 - 26,5 mm
Universal-motor	230 V / 50 Hz

Delivery specification

Groove-Cutting Machine NFU 32	913501
-------------------------------	--------

Delivery scope includes:

1 Expanding grooving cutter with reversible knives 125 x 15,4 - 26,5 x 30 mm (4 15/16 x 5/8 - 1 1/16 x 1 3/16)	091418
1 Parallel guide fence	034890
1 Allen key 4 mm	093074
1 Allen key 6 mm	093081
1 Ring spanner 45 mm	093247
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 25

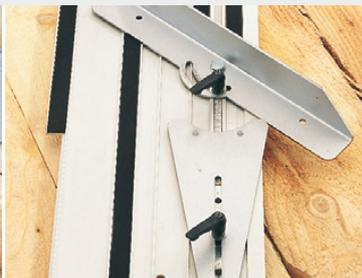


Guide track with sliding bevel and adapter as optional accessory.

Once angle is set on the scale, you can cut your grooves on the right ...

... or on the left of the rafter with the guide track (optional accessory). The angle can be adjusted quickly.

The width of the expanding grooving cutter is adjusted with a combination of different spacer rings.



Accessories / Tools

Image	Description	Ref. No.
	Expanding grooving cutter with reversible TCT knives, 125 x 15,4-26,5 x 30 mm (4 15/16 x 5/8 - 1 1/16 x 1 3/16 in.)	091418
	Guide track as optional accessory with sliding bevel and adapter 1 m (3.3 ft)	201546
	Reversible scoring knife (4 required) TCT, 14 x 14 x 2 mm (9/16 x 9/16 x 1/16 in.)	034907
	Reversible TCT knife (4 required) for expanding grooving cutter 15 x 12 x 1,5 mm (9/16 x 1/2 x 1/16 in.)	201544

Detailed information about our products

www.mafell.com

Multi-Cutter MF 26 cc

NEW

Turn the adjusting screw to set the cutting depth on the sliding scale with an accuracy of 1/10 mm.



The guard opens with a single action. When it is opened, the starting lockout and sawblade lock engage automatically.

With or without a rail – simply turn the pointer to show the exact cutting depth.

Enhanced precision assured – The glider slides on the surface of the workpiece and thus prevents tilting. It helps to hold the MF 26 cc securely in position when it is mounted on the guide rail as well. When bending and folding aluminum composite panels and wallboard in particular, the glider ensures exact cutting depth accuracy.

Product features

- With CUprex, the high-performance motor
- 26 mm (1 in.) cutting depth
- Compatible with guide rail system F
- Hinged guard facilitates fast tool changes

Application area

- Lengthwise and crosswise grooves
- V-grooves
- For routing wallboard prior to folding, bending techniques
- Routing and folding techniques with aluminum composite panels, sawing
- Materials usage: solid wood, MDF, drywall, aluminum composite panels

Product description

The design of the MF 26 cc is characterized by the use of extremely rugged, high-quality and precision-made parts, including the lightweight magnesium die-cast housing and impact-resistant, fiber glass-reinforced plastic components.

The MF 26 cc multi-cutter can be operated to a cutting depth of 26 mm (1 in.) on the guide rail and as a plunge-cut saw.

Whether sawing, routing or cutting grooves, genuine precision is best achieved with the aid of the guide rail system F.

Continuously variable speed up to 6250 rpm. For shaping, sawing and slotting an abundance of different materials.

Technical data

	MF 26 cc
Cutting depth	0 - 26 mm
Nominal speed – no load	3600 - 6250 1/min
Cutting speed	39,9 m/s
Universal motor	230 V / 50 Hz
Nominal power input	1400 W
Weight	4,9 kg (GF-MAX) / 5,0 kg (AF-MAX)

Delivery specification

Multi-Cutter MF 26 cc GF-MAX in the MAFELL-MAX	917802
Multi-Cutter MF 26 cc AF-MAX in the MAFELL-MAX	917801

Delivery scope includes:

1 Parallel guide fence	206038
2 Position indicators	206012
1 Mains cable 4 m (13.1 ft)	087323
GF-MAX:	
1 TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
1 Wallboard cutter MF-GF 90 for 90° V-grooves up to 12.5 mm deep (incl. 2 position indicators and 1 chip deflector)	206075
AF-MAX:	
1 TCT saw blade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), FT/TCG, 40 teeth	092559
1 Aluminum composite cutter MF-AF 90 for 90° V-grooves up to 8 mm deep (incl. 2 position indicators and 1 chip deflector)	206076

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 26



Equipped with the MF-VN 25, the multicutter can produce grooves for risers or service ducts efficiently and quickly.

The MF-AF 90 can be used for routing and folding techniques, as applied in facade construction and with sign boards.

Three slots can be cut in one pass with the MF-SE 3. This quick and simple bending technique is applied to produce curved elements.

The MF-GF 90 cuts 90° V-grooves with very little dust; by gluing the cut faces, sturdy corner paneling is produced in just a few steps.



Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories / Tools		
Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399
	Suction hose LW 35 4 m (13.1 ft) long, anti-static, for use when machining solid wood	093717
	Kick back stop F-RS	202867

Accessories / Tools		
Image	Description	Ref. No.
	Expanding groove cutter MF-VN 25 Cutting width 15.4 - 25 mm	206074
	Wallboard cutter MF-GF 45 for 45° V-grooves up to 12.5 mm deep (incl. 2 position indicators and 1 chip deflector)	205562
	Wallboard cutter MF-GF 90 for 90° V-grooves up to 12.5 mm deep (incl. 2 position indicators and 1 chip deflector)	206075
	Aluminum composite cutter MF-AF 90 for 90° V-grooves up to 8 mm deep (incl. 2 position indicators and 1 chip deflector)	206076
	Slotting head MF-SE 3 for cutting 3 slots up to 26 mm	206072
	Roller edge guide MF-UA	206073
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TCG, 40 teeth	092578
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 12 teeth	092560
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), FT/TCG, 40 teeth	092559

Detailed information about our products
www.mafell.com

Multi-Cutter MF 26 cc / 400

NEW

Turn the adjusting screw to set the cutting depth on the sliding scale with an accuracy of 1/10 mm.



The guard opens with a single action. When it is opened, the starting lockout and sawblade lock engage automatically.

With or without a rail – simply turn the pointer to show the exact cutting depth.

The MF 26 cc / 400 is permanently attached to guide 400, so that the multi-cutter and the rail form an integral unit.

Product features

- With guide track 400
- One machine – five applications
- Compatible with guide rail system F
- Hinged guard facilitates fast tool changes

Application area

- Lengthwise and crosswise grooves
- V-grooves
- For routing wallboard prior to folding, bending techniques
- Routing and folding techniques with aluminum composite panels, sawing
- Materials usage: solid wood, MDF, drywall, aluminum composite panels

Product description

The design of the MF 26 cc is characterized by the use of extremely rugged, high-quality and precision-made parts, including the lightweight magnesium die-cast housing and impact-resistant, fiber glass-reinforced plastic components.

The MF 26 cc multi-cutter can be operated to a cutting depth of 26 mm (1 in.) on the guide rail and as a plunge-cut saw.

Whether sawing, routing or cutting grooves, genuine precision is best achieved with the aid of the guide rail system F.

Continuously variable speed up to 6250 rpm. For shaping, sawing and slotting an abundance of different materials.

Technical data

	MF 26 cc
Cutting depth	0 - 26 mm
Nominal speed – no load	3600 - 6250 1/min
Cutting speed	39,9 m/s
Universal motor	230 V / 50 Hz
Nominal power input	1400 W
Weight	6,6 kg

Delivery specification

Multi-Cutter MF 26 cc / 400 in carrying case	917804
----------------------------------------------	--------

Delivery scope includes:

1 TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
1 Expanding groove cutter MF-VN 25 Cutting width 15.4 - 25 mm (5/8 in. - 1 in.)	206074
1 Parallel guide fence	206038
1 Guide track 400	206118
1 Mains cable 4 m (13.1 ft)	087323

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 26



When cutting crosswise grooves, typically for risers or shelves, use of the guide 400 is recommended.

Stops are provided on the underside of the rail for adjusting the angle according to the scale.

Once the machining operation has been performed, a spring automatically returns the multicutter to the starting position.

Service ducts can be cut in soft fiberboard quickly and without any dust with the MF-VN 25 expanding groove cutter.



Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Accessories / Tools		
Image	Description	Ref. No.
	Guide rail F 80 0,8 m (2.6 ft) long	204380
	Guide rail F 110 1,1 m (3.6 ft) long	204381
	Guide rail F 160 1,6 m (5.2 ft) long	204365
	Guide rail F 210 2,1 m (6.9 ft) long	204382
	Guide rail F 310 3,1 m (10.2 ft) long	204383
	Connecting piece F-VS for joining two guide rails	204363
	Angle fence F-WA	205357
	Guide pocket F 160 for guide rails up to 1,6 m	204626
	Guide pocket set: 2 x F 160 + F-VS + 2 x F-SZ 100MM + 1 guide pocket	204805
	Guide pocket set: F 80 + F 160 + F-WA + F-VS + 2 x F-SZ 100MM + guide pocket	204749
	End cap F-EK 2 pieces	205400
	Non-slip profile F-HP 6,8M 6,8 m (22.3 ft.) long	204376
	Splinter guard F-SS 3,4M 3,4 m (11.2 ft.) long	204375
	Screw clamp F-SZ 100MM for fixing guide rail to workpiece, 2 pieces	205399
	Suction hose LW 35 4 m (13.1 ft) long, anti-static, for use when machining solid wood	093717
	Kick back stop F-RS	202867

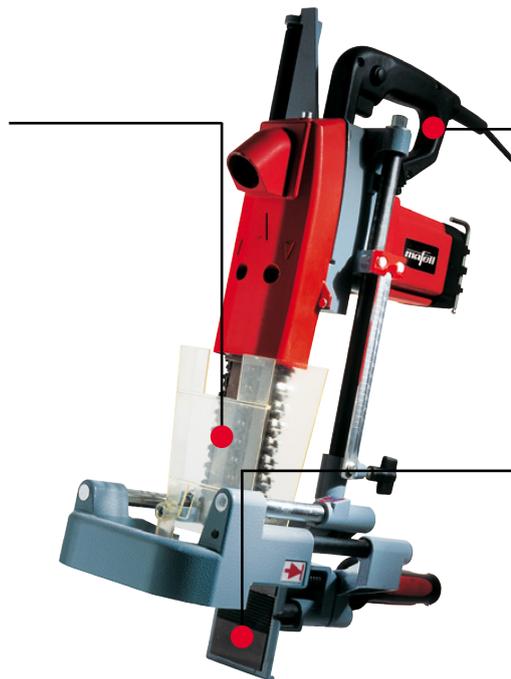
Accessories / Tools		
Image	Description	Ref. No.
	Guide track 770 max. tilt range 770 mm (30 5/16 in.)	204378
	Expanding groove cutter MF-VN 25 Cutting width 15.4 - 25 mm	206074
	Wallboard cutter MF-GF 45 for 45° V-grooves up to 12.5 mm deep (incl. 2 position indicators and 1 chip deflector)	205562
	Wallboard cutter MF-GF 90 for 90° V-grooves up to 12.5 mm deep (incl. 2 position indicators and 1 chip deflector)	206075
	Aluminum composite cutter MF-AF 90 for 90° V-grooves up to 8 mm deep (incl. 2 position indicators and 1 chip deflector)	206076
	Slotting head MF-SE 3 for cutting 3 slots up to 26 mm	206072
	Roller edge guide MF-UA	206073
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), TCG, 40 teeth	092578
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 12 teeth	092560
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), AT, 24 teeth	092558
	TCT sawblade 120 x 1,2/1,8 x 20 mm (4 3/4 in.), FT/TCG, 40 teeth	092559

Detailed information about our products

www.mafell.com

Door Lock Mortiser SKS 130

Two clear guide systems – for doors with and without upstand.



Handy, ergonomic, compact construction – for on-site work on mounted doors.

Two special mortising chains in opposite directions – for tear-free work and optimum chip flow.

Product features

- Clean, quick, tear-free cuts
- For use on the construction site

Application area

- Cutting mortises for lock cases (installation of safety locks)
- Compatible materials include doors made of wood and wood-based materials, solid wood

Product description

The SKS 130 – the world's first portable special machine for mortising door locks.

The security needs of many house and apartment owners have increased considerably, so that more and more security locks are being fitted.

At 1600 watts (2.1 hp), the SKS 130 cuts door locks of all sizes – completely tear-free!

The SKS 130 is clamped onto a large surface of the door. Due to the Pertinax/rubber surface of the clamping device, the door surface remains protected, whether mounted on site or in the workshop.

Technical data

	SKS 130
Mortising depth	145 (130) mm
Mortising width	14, 16, 18 mm
Mortising length	78 mm
Stroke/working travel	175 mm
Nominal input	1600 W
Weight	10 kg
Nominal no-load speed	5770 1/min
Universal-motor	230 V / 50 Hz

Delivery specification

Door Lock Mortiser SKS 130 with 14 mm chain set	915502
Door Lock Mortiser SKS 130 with 16 mm chain set	915501
Door Lock Mortiser SKS 130 with 18 mm chain set	915503

Delivery scope includes:

2 Chain bars	091000
2 Mortising chains	
2 Sprockets	091002
1 Allen key 5 mm	093278
1 Mains cable 4 m (13.1 ft)	087323
1 Carrying case	095000

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 26

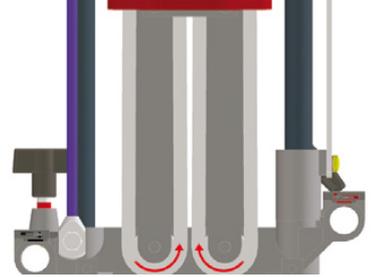
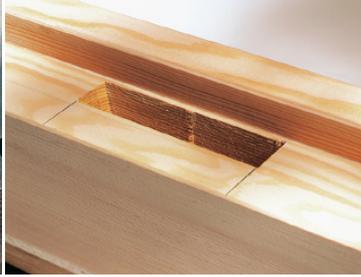
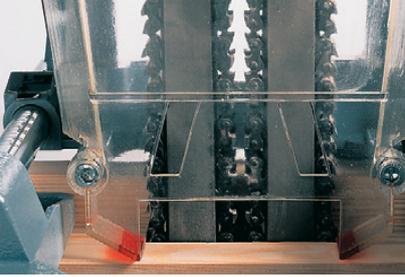


The chain bars are maintenance-free and do not need to be re-greased.

Mortising lengths of 78 mm (3 1/16 in.) and mortising widths of 16 mm (5/8 in.) are possible with one cut. Wider and longer slots can also be made to the exact millimetre by following up with the SKS 130.

No longer a problem: quick, precise lock mortising is now possible on a mounted door.

Two special mortising chains in opposite directions ensure tear-free work and optimum chip flow.

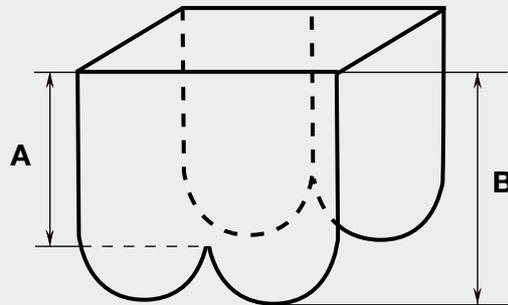


Accessories / Tools

Image	Description	Ref. No.
	Chain bars 14 - 18 mm (9/16 - 11/16 in.)	091000
	Sprocket 14 - 18 mm (9/16 - 11/16 in.)	091002
	Mortising chain 14 x 38 x 150 mm (9/16 x 1 1/2 x 5 7/8 in.)	091003
	16 x 38 x 150 mm (5/8 x 1 1/2 x 5 7/8 in.)	091001
	18 x 38 x 150 mm (11/16 x 1 1/2 x 5 7/8 in.)	091004
	Replacement chain links + rivets 14 mm (9/16 in.)	091005
	16 mm (5/8 in.)	091006
	18 mm (11/16 in.)	091007

Mortising depths

Mortising depth A: 130 (5 1/8 in.) mm
Mortising depth B: 145 (5 11/10 in.) mm



Detailed information about our products

www.mafell.com

Carpenter's Skew Notch, Lap-Joint and Tenon Cutting Machine

ZK 115 Ec



All-round protective cover – for optimum user protection.

Special machine – for all notching and facing tasks.

Fast, precise adjustment – no test cutting necessary – considerable time-saving.

Product features

- With CUprex, the high-performance motor
- Lightweight with 18,4 kg (40.6 lbs)
- Stable height adjustment

Application area

- Birdsmouth cuts and lap joints
- Compatible materials include solid wood and glue-laminated timber

Product description

The ZK 115 Ec – a persuasive and powerful tool offering ease of use, a tool brake and electronics with:

- Smooth starting
- Constant speed under load
- Overload protection
- No-load speed reduction to protect machine
- Reduced noise emissions

The entirely newly developed 150 x 115 mm (5 7/8 x 4 1/2 in.) cutter head of the ZK 115 Ec, with 13 reversible carbide tips (9 for final, 4 for rough cutting), facilitates very high cutting rates, optimum chip removal and an extended service life.

Simply score the notch and vertical cut, set the cut indicator, notch depth and angle – and mortising can begin. It couldn't be quicker and easier!

The guide rails available as optional accessories can be used with all other MAFELL carpentry machines.

Technical data

	ZK 115 Ec
Depth of lap-joint	0 - 70 mm
Tilt range	0 - 60°
Nominal no-load speed	4050 1/min
Cutting speed (with standard cutter head)	31,8 m/s
Nominal input	3000 W
Weight (with standard cutter head)	18,4 kg
Cutting tool - as standard	150 x 115 mm
Universal-motor	230 V / 50 Hz

Delivery specification

Carpenter's Skew Notch, Lap-Joint and Tenon Cutting Machine ZK 115 Ec	925001
------------------------------------------------------------------------------	---------------

Delivery scope includes:

1 Skew notch cutter head cpl., Ø 150 x 115 mm (5 7/8 x 4 1/2 in.)	203657
1 Parallel guide fence	203683
1 Allen key	093164
1 Screw driver Torx T 15	093274
1 Mains cable 10 m (32.8 ft)	087612

Conversion table for inches, pounds, horsepower please find on page 132.

PG B
Price list page 26

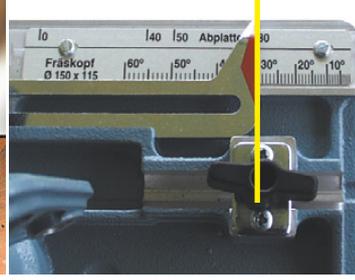
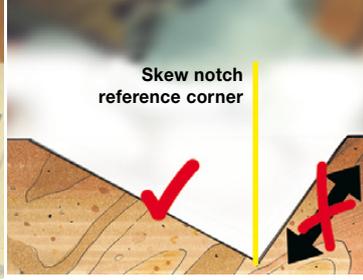


The ZK 115 Ec with the guide rail.

Unsurpassed precision – approved right-angled height adjustment. Distance of nothes always constant irrespective of wood tolerances.

Just position the machine on the skew notch edge of reference.

New cutter head with reversible carbide tips for extreme machining rates and optimum chip removal.

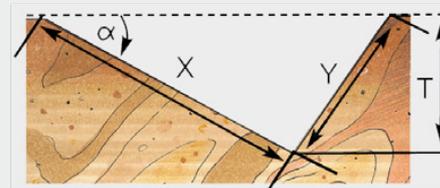


Accessories / Tools

Image	Description	Ref. No.
	Guide rail length 3 m (9.8 ft) (2 pieces with connecting piece)	037037
	Guide rail length 3 m (9.8 ft) (one piece)	200672
	Guide rail extension 2600 length 1,5 m (4.9 ft)	036553
	Adapters (pair) for parallel guide fence	037195
	Skew notch cutter head cpl., Ø 150 x 115 mm (5 7/8 x 4 1/2 in.)	203657
	Lap-Joint cutter head cpl., Ø 236 x 50 x 30 mm (9 5/16 x 1 15/16 x 1 3/16 in.)	203659
	Reversible knives TCT 14 x 14 x 2 mm (9/16 x 9/16 x 1/16 in.)	201927
	Lap-Joint cutter head cpl., Ø 190 x 80 mm (7 1/2 x 3 1/8 in.)	091417
	Lap-Joint cutter head cpl., Ø 150 x 60 mm (5 7/8 x 2 3/8 in.)	091415
	Reversible knives 80 x 12 x 1,5 mm (3 1/8 x 1/2 x 1/16 in.)	035090
	Reversible knives 60 x 12 x 1,5 mm (2 3/8 x 1/2 x 1/16 in.)	035089
	Reversible knives TCT 14 x 14 x 2 mm (9/16 x 9/16 x 1/16 in.)	034907

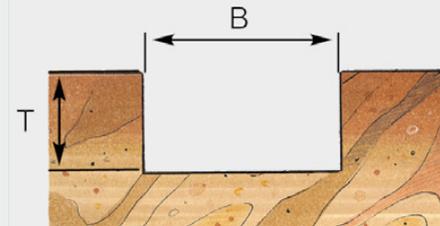
Cutting depth list

a Skew notch



Ref. No.	203657				
Cutter head	150 x 115 mm				
„α“ (°)	0°	15°	30°	45°	60°
Depth „T“ (mm)	27	29,7	57,5	77,9	75
Width „B“ (mm)	115				
„X“ mm	115	115	110	86,6	
„Y“ mm	30,8	66,4	110	150	

b Lap joint



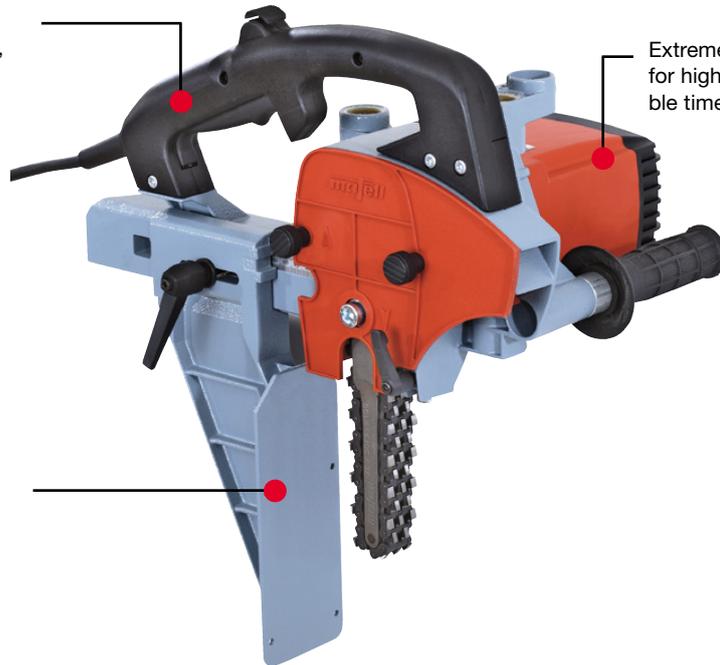
Ref. No.	203659	091417
Cutter head	236 x 50 mm	190 x 80 mm
„α“ (°)	0°	0°
Depth „T“ (mm)	70	47
Width „B“ (mm)	50	80

Detailed information about our products

www.mafell.com

Chain Mortiser LS 103 Ec

Ergonomic handle and switch arrangement – for safe, efficient, energy-saving work.



Extremely powerful motor – for high efficiency and considerable time-saving.

Low machine weight – ideal for use on construction site.

Product features

- With CUPrex, the high-performance motor
- Extremely lightweight and safe
- Fast chain replacement
- Ergonomic machine construction

Application area

- For cutting mortises
- Compatible materials include solid wood and glue-laminated timber

Product description

Unique lightweight at only 9 kg (19.8 lbs.). Chain mortising without the drag.

The long guide plate has a large adjusting range and permits work on large timber workpieces.

The tensioning system of the LS 103 Ec allows fast chain replacement. Even retightening of the chain without removing the chain guard is quick and easy.

Optional accessories include the guide support stand for the LS 103 Ec, ideal for precise framing work, particularly indispensable for chain sets of 150 mm (5 7/8 in.)

With the LS 103 Ec and the appropriate slot mortising attachment SG 230, SG 400 or SG 500, you can execute slots of up to 500 mm (19 11/16 in.!) This is not possible with any other machine on the market!

Technical data

	LS 103 Ec
Mortising depth	100 / 150 mm
Nominal no-load speed	4050 1/min
Nominal input	2500 W
Weight	8,9 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Chain Mortiser LS 103/40 Ec complete with chain set, 28 x 40 x 100 mm	924201
Chain Mortiser LS 103/35 Ec complete with chain set, 28 x 35 x 100 mm	924202
Chain Mortiser LS 103/40 Ec complete with chain set, 28 x 40 x 150 mm	924203
Chain Mortiser LS 103/35 Ec complete with chain set, 28 x 35 x 150 mm	924204

Delivery scope includes:

1 Stop plate	200954
1 Allen key 4 mm	093074
1 Allen key 8 mm	093070
1 Mains cable 10 m (32.8 ft)	087612

Additional information:

Please note: use of the Chain Mortiser LS 103 Ec with 150 mm set requires use of the guide support stand FG 150. Ref. No. 200980.

Conversion table for inches, pounds, horsepower Please find on page 132.

PG B
Price list page 27

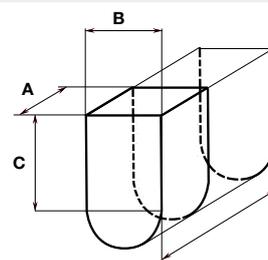


Tenon cuts of various sizes up to 100 mm (3 15/16 in.) with the LS 103 Ec.

The LS 103 Ec being operated horizontally.

The LS 103 Ec with the guide support stand FG 150 for mortising depths of up to 150 mm (5 7/8 in.).

Dimensions of mortising chains example: 28 x 40 x 100 mm; chain width: 28 mm (1 1/8 in.); hole width: 40 mm (1 9/16 in.); mortising depth: 100 mm (3 15/16 in.)



Accessories / Tools

Image	Description	Ref. No.
	Guide support stand FG 150	200980
	Chain bars 28 x 40 x 100 mm (1 1/8 x 1 9/16 x 3 15/16 in.)	091010
	Chain bars 28 x 40 x 150 mm (1 1/8 x 1 9/16 x 5 7/8 in.)	091011
	Chain bars 28 x 35 x 100 mm (1 1/8 x 1 3/8 x 3 5/16 in.)	091012
	Chain bars 28 x 35 x 150 mm (1 1/8 x 1 3/8 x 5 7/8 in.)	091013
	Mortising chain pitch 22.6, 28 x 35 x 100 mm (1 1/8 x 1 3/8 x 3 5/16 in.)	091230
	Mortising chain pitch 22.6, 28 x 40 x 150 mm (1 1/8 x 1 9/16 x 5 7/8 in.)	091234
	Sprocket pitch 22.6, 4 teeth, for set 28 x 35/40 x 100 mm/150 mm (1 1/8 x 1 9/16 x 3 15/16 / 5 7/8 in.)	091683

Accessories / Tools

Image	Description	Ref. No.
	Replacement chain links + rivets 1 bag, for 28 mm (1 1/8 in.) chain width, large pitch	091279

Detailed information about our products

www.mafell.com

Areas

Sawing

Drilling

Sanding

Planing

Mortising

Special

Miscellaneous

Slot Mortising Attachment SG 230

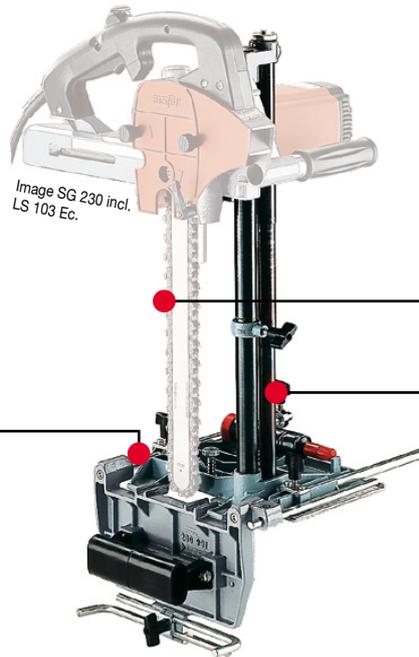


Image SG 230 incl. LS 103 Ec.

Low overall weight – for excellent handling even in difficult working positions.

Mortising width from 6 - 21 mm (1/4 - 13/16 in.) – for various applications.

Robust, torsion free guide support stand – for perfect size slots.

Product features

- Perfect size slots
- Extremely low total weight

Application area

- Cutting slots for beam joints and connectors
- Compatible materials include solid wood, trusses and laminated beams

Product description

The SG 230 is one of three options for the Chain Mortiser LS 103 Ec for cutting slots in beams and glulam.

Channels for supply lines, slots in posts or for concealed beam joints: with the SG 230 you can cut slots in any timber up to a depth of 285 mm (11 1/4 in.).

With a weight of just 16.7 kg (36.8 lbs), you can even cut slots in fitted beams.

With this combination, the coordination of slot mortising attachment and chain mortiser enables you to make 100 % perfect size slots from beginning to end.

Technical data

SG 230

Mortising depth	220 / 285 mm
Mortising width in one cut	6 - 21 mm
Mortising length in one cut	50 mm
Weight	8,5 kg

Delivery specification

Slot Mortising Attachment SG 230	200990
----------------------------------	--------

Additional information:

The Chain Mortiser LS 103 Ec is not part of the delivery specification.

Slot mortising attachments are supplied as standard without a chain set. Please choose the set that meets your needs from our range.

The slot mortising attachments can only be supplied together with a chain set.

Delivery scope includes:

1 Grease gun	076158
--------------	--------

Conversion table for inches, pounds, horsepower please find on page 132.

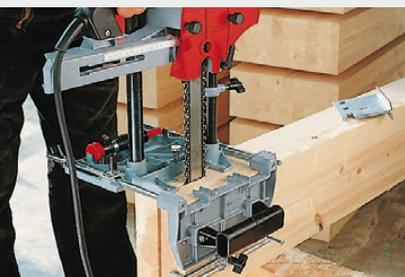


Universal use for supporting legs, integrated transition pieces and gusset plates.

Mortising direction with the SG 230 - vertical and horizontal.

The clamp is continuously adjustable for series production purposes.

Clearly legible scales facilitate precise adjustment.



Accessories / Tools

Image **Description** **Ref. No.**



Chain bar for mortising width
 6 - 7 mm (1/4 in.) **091383**
 8 - 9 mm (5/16 - 3/8 in.) **091381**
 10 - 11 mm (3/8 - 7/16 in.) **091382**
 12 - 17 mm (1/2 - 11/16 in.) **091384**
 18 - 21 mm (11/16 - 13/16 in.) **091385**



Chain (43 sets of links) for mortising width
 6 mm (1/4 in.) **091377**
 7 mm (1/4 in.) **091378**
 8 mm (5/16 in.) **091379**
 9 mm (3/8 in.) **091375**
 10 mm (3/8 in.) **091347**
 11 mm (7/16 in.) **091376**
 12 mm (1/2 in.) **091348**
 13 mm (1/2 in.) **091349**
 14 mm (9/16 in.) **091350**
 15 mm (9/16 in.) **091351**
 16 mm (5/8 in.) **091352**
 17 mm (11/16 in.) **091353**
 18 mm (11/16 in.) **091354**
 19 mm (3/4 in.) **091355**
 20 mm (13/16 in.) **091356**
 21 mm (13/16 in.) **091357**



Sprocket for mortising width
 6 - 7 mm (1/4 in.) **091686**
 8 - 9 mm (5/16 - 3/8 in.) **091687**
 10 - 11 mm (3/8 - 7/16 in.) **091688**
 12 - 17 mm (1/2 - 11/16 in.) **091689**
 18 - 21 mm (11/16 - 13/16 in.) **091690**



Set of links 5 pieces packed
 for 091377 **091393**
 for 091378 **091394**
 for 091379 **091395**
 for 091375 **091391**
 for 091347 **091366**
 for 091376 **091392**
 for 091348 **091367**
 for 091349 **091368**
 for 091350 **091369**

Accessories / Tools

Image **Description** **Ref. No.**

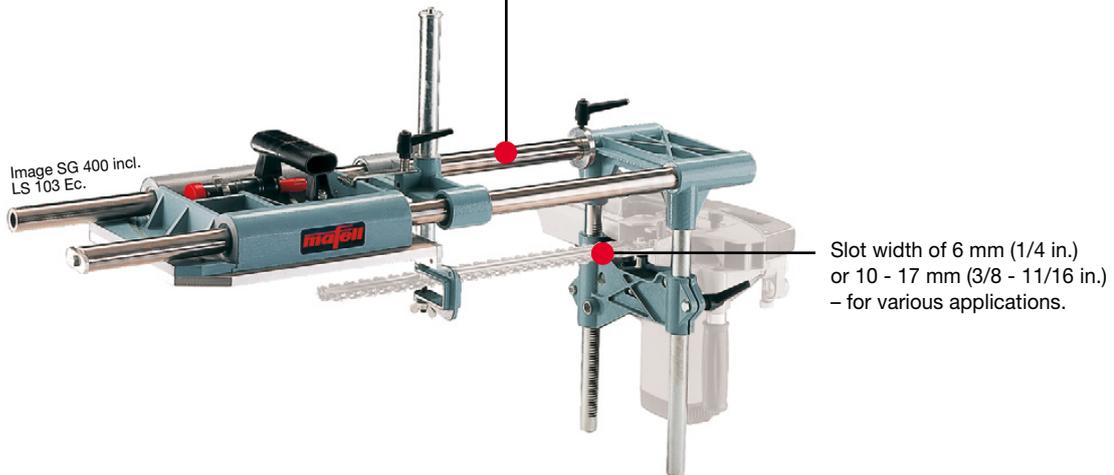
for 091351 **091335**
 for 091352 **091336**
 for 091353 **091337**
 for 091354 **091338**
 for 091355 **091339**
 for 091356 **091340**
 for 091357 **091332**

1 set = 5 replacement chain links + rivets

Detailed information about our products
www.mafell.com

Slot Mortising Attachment SG 400

Robust, torsion free guide support stand – for perfect size slots.



Product features

- Perfect size slots
- Tilt range 45°

Application area

- Compatible materials include solid wood and laminated beams

Product description

Together with the LS 103 Ec Chain Mortiser, the SG 400 is the ideal attachment, e.g. for preparing large glulam workpieces for the insertion of connection pieces.

The impressive mortising depth of up to 400 mm (15 3/4 in.) is ensured by the exact coordination of the slot attachment with the basic machine.

The exact special chain guide and the cutting depth stop guarantee that the measurement is adhered to from the beginning to the end of the cut.

The complete unit can of course be tilted up to 45°.

Technical data

SG 400

Mortising depth	300 / 400 mm
Mortising width in one cut (with 300 mm set)	6 - 17 mm
Mortising width in one cut (with 400 mm set)	10 - 17 mm
Mortising length in one cut	50 mm
Weight	24,5 kg

Delivery specification

Slot Mortising Attachment SG 400	201000
----------------------------------	--------

Additional information:

The Chain Mortiser LS 103 Ec is not part of the delivery specification.

Slot mortising attachments are supplied as standard without a chain set. Please choose the set that meets your needs from our range.

The slot mortising attachments can only be supplied together with a chain set.

Delivery scope includes:

1 Grease gun	076158
--------------	--------

Conversion table for inches, pounds, horsepower Please find on page 132.

PG S
Price list page 28



The cutting depth can be set exactly.

The vertical edge spacing is set exactly by way of a scale.

The slot mortiser can be tilted through 45° in either direction.

High-precision cuts for high quality gusset plate connections in woodwork engineering.



Accessories / Tools

Image	Description	Ref. No.
-------	-------------	----------



Clamping device	039602
Maximum clamping width 300 mm	
(Illustration shows clamping device fitted on SG 400)	

Chain sets for 300 mm mortising depth



Chain bar	
for mortising width	
6 - 7 mm (1/4 in.)	091606
8 - 9 mm (5/16 - 3/8 in.)	091607
10 - 11 mm (3/8 - 7/16 in.)	091608
12 - 17 mm (1/2 - 11/16 in.)	091609



Chain	
(50 sets of links)	
for mortising width	
6 mm (1/4 in.)	091614
7 mm (1/4 in.)	091616
8 mm (5/16 in.)	091617
9 mm (3/8 in.)	091619
10 mm (3/8 in.)	091621
11 mm (7/16 in.)	091623
12 mm (1/2 in.)	091624
13 mm (1/2 in.)	091626
14 mm (9/16 in.)	091627
15 mm (9/16 in.)	091628
16 mm (5/8 in.)	091629
17 mm (11/16 in.)	091631

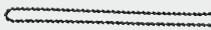
Chain sets for 400 mm mortising depth



Chain bar	
for mortising width	
10 - 11 mm (3/8 - 7/16 in.)	091613
12 - 17 mm (1/2 - 11/16 in.)	091611

Accessories / Tools

Image	Description	Ref. No.
-------	-------------	----------



Chain	
(50 sets of links)	
for mortising width	
10 mm (3/8 in.)	091632
11 mm (7/16 in.)	091633
12 mm (1/2 in.)	091634
13 mm (1/2 in.)	091636
14 mm (9/16 in.)	091637
15 mm (9/16 in.)	091638
16 mm (5/8 in.)	091639
17 mm (11/16 in.)	091641

Sprocket for Chain sets with 300 / 400 mm mortising depth



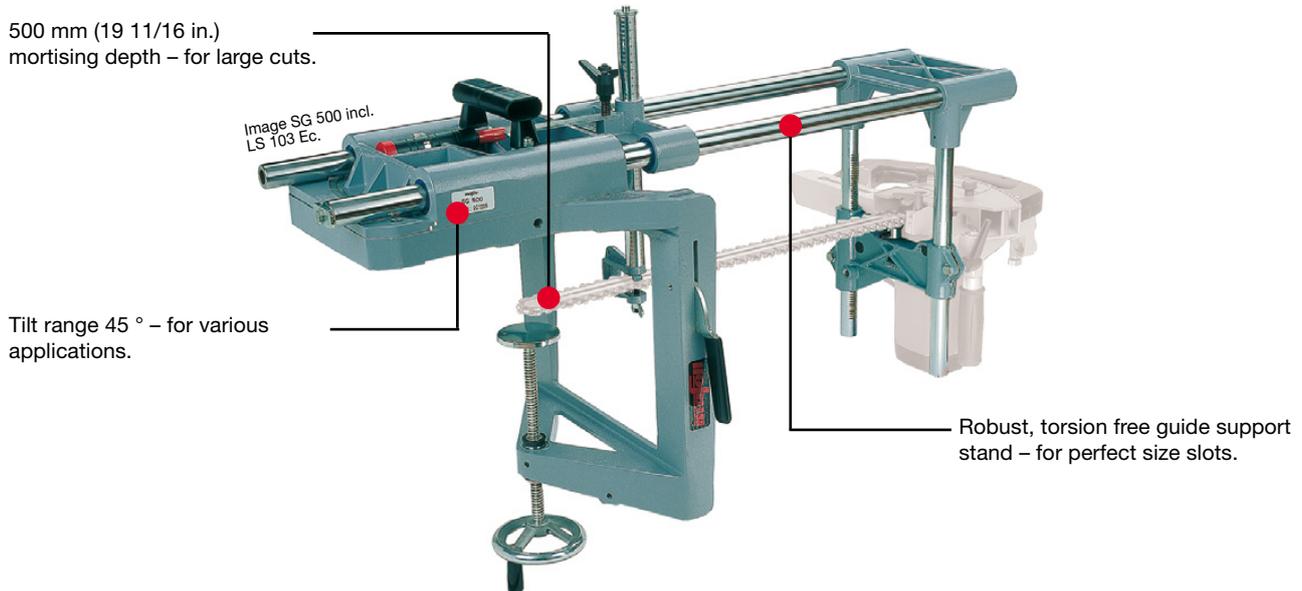
Sprocket	
6 - 7 mm (1/4 in.)	091686
8 - 9 mm (5/16 - 3/8 in.)	091687
10 - 11 mm (3/8 - 7/16 in.)	091688
12 - 17 mm (1/2 - 11/16 in.)	091689

Double links for mortising chains, see SG 230

Detailed information about our products

www.mafell.com

Slot Mortising Attachment SG 500



Product features

- 500 mm (19 11/16 in.) mortising depth
- Perfect size slots
- Tilt range 45°

Application area

- Compatible materials include solid wood and laminated beams

Product description

Here you can really go in-depth! With 500 mm (19 11/16 in.) mortising depth and 50 mm (1 15/16 in.) mortising width with each individual cut.

The guide angle can be tilted up to 45 degrees on either side. It is supplied with 3 guide pieces (3, 5 and 7 mm (1/8, 3/16 and 1/4 in.) which can be attached to the front end of the guide rail.

Wider slots can thus be achieved by making a second cut. The inserted guide piece ensures that the chain does not err into the first cut.

See the table on the next page for more details.

Technical data

	SG 500
Mortising depth	500 mm
Mortising width in one cut	10 - 17 mm
Mortising length in one cut	50 mm
Nominal input	31,6 kg

Delivery specification

Slot Mortising Attachment SG 500	201005
----------------------------------	--------

Additional information:

The Chain Mortiser LS 103 Ec is not part of the delivery specification.

Slot mortising attachments are supplied as standard without a chain set. Please choose the set that meets your needs from our range.

The slot mortising attachments can only be supplied together with a chain set.

Delivery scope includes:

3 Guide pieces 3, 5, 7 mm (1/8, 3/16, 1/4 in.)	
1 Clamping device maximum clamping width 300 mm	039602
1 Grease gun	076158

Conversion table for inches, pounds, horsepower please find on page 132.

PG S
Price list page 29

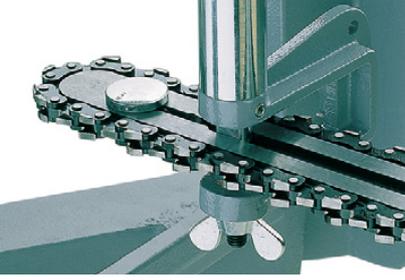


Guide piece in use.

For cuts at an angle to the edge of the timber: tilt range up to 45° in both directions.

The vertical edge spacing is set exactly by way of a scale.

The slot mortiser can be tilted through 45° in either direction.



Accessories / Tools

Image	Description	Ref. No.
	Chain bar for mortising width	
	10 mm (3/8 in.)	091642
	11 mm (7/16 in.)	091643
	12 mm (1/2 in.)	091644
	13 mm (1/2 in.)	091646
	14 mm (9/16 in.)	091647
	15 mm (9/16 in.)	091648
	16 mm (5/8 in.)	091649
	17 mm (11/16 in.)	091659

	Chain bar for mortising width	
	10 mm (3/8 in.)	091651
	11 mm (7/16 in.)	091652
	12 mm (1/2 in.)	091653
	13 mm (1/2 in.)	091654
	14 mm (9/16 in.)	091655
	15 mm (9/16 in.)	091656
	16 mm (5/8 in.)	091657
	17 mm (11/16 in.)	091658

Accessories / Tools

Image	Description	Ref. No.
	Sprocket for mortising width	
	10 - 11 mm (3/8 - 7/16 in.)	091688
	12 - 17 mm (1/2 - 11/16 in.)	091689

	Guide piece	
	3 mm (1/8 in.)	202815
	5 mm (3/16 in.)	202816
	7 mm (1/4 in.)	202817
	8 mm (5/8 in.)	202818
	9 mm (3/8 in.)	202819
	10 mm (3/8 in.)	202820
	12 mm (1/2 in.)	202821
	13 mm (1/2 in.)	202822
	14 mm (9/16 in.)	202823

Double links for mortising chains, see SG 230

slot size	chain bar 10 x 50 x 500 mm + guide piece	chain bar 11 x 50 x 500 mm + guide piece	chain bar 12 x 50 x 500 mm + guide piece	chain bar 13 x 50 x 500 mm + guide piece	chain bar 14 x 50 x 500 mm + guide piece	chain bar 15 x 50 x 500 mm + guide piece	chain bar 16 x 50 x 500 mm + guide piece	chain bar 17 x 50 x 500 mm + guide piece
12 mm	3 mm							
12,5 mm		3 mm						
14 mm	5 mm							
14,5 mm		5 mm	3 mm					
15 mm				3 mm				
15,5 mm					3 mm			
16 mm	7 mm					3 mm		
16,5 mm		7 mm	5 mm				3 mm	
17 mm	8 mm			5 mm				
17,5 mm		8 mm			5 mm			
18 mm	9 mm					5 mm		
18,5 mm		9 mm	7 mm				5 mm	
19 mm	10 mm			7 mm				5 mm
19,5 mm		10 mm	8 mm		7 mm			
20 mm				8 mm		7 mm		
20,5 mm			9 mm		8 mm		7 mm	
21 mm				9 mm		8 mm		7 mm
21,5 mm			10 mm		9 mm		8 mm	
22 mm				10 mm		9 mm		8 mm
22,5 mm					10 mm		9 mm	
23 mm						10 mm		9 mm
23,5 mm			12 mm				10 mm	
24 mm				12 mm				10 mm
24,5 mm					12 mm			
25 mm				13 mm		12 mm		
25,5 mm					13 mm		12 mm	
26 mm						13 mm		12 mm
26,5 mm					14 mm		13 mm	
27 mm						14 mm		13 mm
27,5 mm							14 mm	
28 mm								14 mm

Detailed information about our products

www.mafell.com

Tenoner

ZAF 250 Vario

Considerable time-saving – due to quick and easy adjustment of length, angle and tenon dimensions.

Maximum timber dimensions
500 x 250 mm (19 11/16 x 9 13/16 in.)
at 0° and 220 x 250 mm
(8 11/16 x 9 13/16 in.)
at 60°.



Minimal space requirement – the workpiece always remains in the same position.

No chip waste – fully extractable.

Product features

- Tilt range of cutting unit up to 60°
- Laser positioning
- Special cutting tool

Application area

- Cutting tenons and laps up to 60°
- Compatible materials include solid wood and laminated beams

Product description

The ZAF 250 Vario executes the full range of tenons quickly, accurately, efficiently and precisely.

For straight or angled tenons, corner or ridge half-lap joints, you can always count on the ZAF 250 Vario Tenoner.

To ensure exact length measurements, the stop is adjusted on a scale.

Developed specifically for the ZAF 250 Vario, the cutting tool can be rapidly adapted for different tenon lengths and half-lap joints.

The ZAF 250 Vario has precision setting options and a clearly laid-out control panel. Precise positioning of the timber is facilitated by a new built-in laser. The result is cuts which are accurate to the nearest millimetre (inch) in all types of timber!

After setting the desired tenon geometry, the cutter head automatically executes the required shape – including angled, haunched and chamfered cuts. Chip waste is extractable as a matter of course.

For hardwood applications the ZAF 250 Vario has an adjustable feed rate. Chip waste is extractable as a matter of course.

Technical data

	ZAF 250 Vario
Maximum timber sizes (W x H) right angle	500 x 250 mm
Maximum timber sizes (W x H) 60°	220 x 250 mm
Length of support (with scale for adjusting length stop)	3000 mm
Three-phase AC motor	400 V / 50 Hz
Nominal input	6000 W
Nominal no-load speed	6670 1/min
Feed rate speed	0,9 - 2,2 m/min
Cutting speed	32,8 m/s
Weight	ca. 380 kg
Place requirement	1,5 x 4 m

Delivery specification

Tenoner ZAF 250 Vario	991201
-----------------------	--------

Delivery scope includes:

1 Cutter head cpl. with reversible knives	202105
----------------------------------------------	--------

Conversion table for inches, pounds, horsepower please find on page 132.

PG F
Price list page 29



The 3 m (9.8 ft) long support profile with mm scale and length stop allow precise positioning of the workpieces.

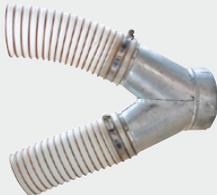
Laser technology allows positioning of the workpiece after marking.

Clear, transparent layout
- the controls of the ZAF 250 Vario for automatic or manual operation.

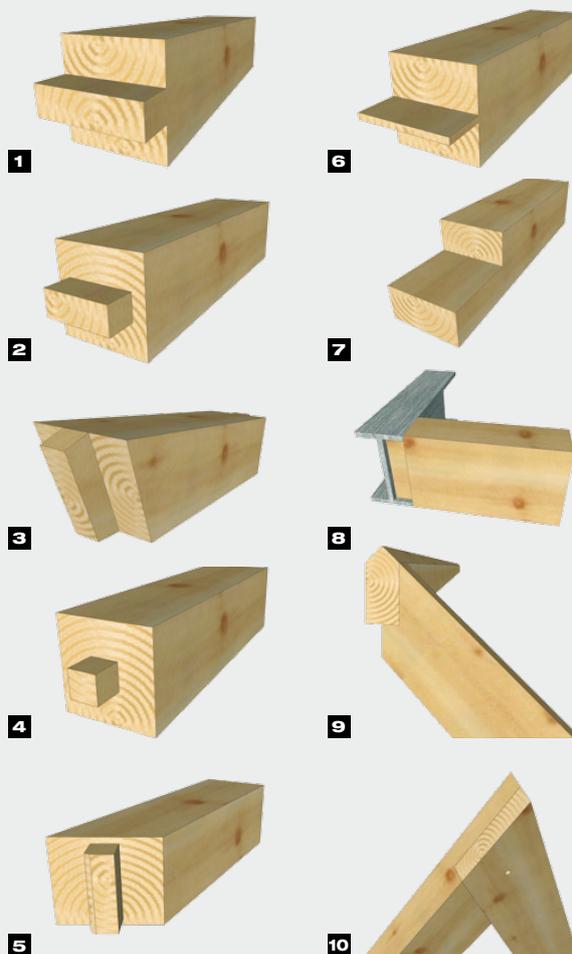
Straight and angled tenons are executed in a single work cycle as the control permits machining on 4 sides. This also allows all-round chamfering of the tenons.



Accessories / Tools

Image	Description	Ref. No.
	Extractor set	202320
	Reversible knives TCT 14 x 14 x 2 mm (9/16 x 9/16 x 1/16 in.) 18 pieces required	201927
	Chamfer knife 22 x 22 x 2 mm 4 pieces required	201930

Machining examples



- 1** Tenon (straight, horizontal)
- 2** Tenon (shouldered)
- 3** Tenon (with mitered shoulders)
- 4** Tenon variant (straight)
- 5** Tenon (vertical, angled)
- 6** Tenon variant (extra thin)
- 7** Corner half lap joint
- 8** Steel beam joint
- 9** Triangular notch in rafter for ridgeboard
- 10** Ridge half lap joint

Detailed information about our products
www.mafell.com

The lowdown on special machines



For the floor layer

MAFELL offer for the parquet and floor layer a range of quality tools and machines for all sorts of floor coverings.

Elastic floor coverings call for grooving machines. The shape and depth of the groove and welding marking lines depend on the experience of the craftsman or the recommendations of the floorcovering manufacturer. Here in particular special machines are required which meet these individual requirements.

The KFU 1000 E from MAFELL is ideal for this purpose. Thanks to the cutting depth and speed adjustment, the KFU 1000 E produces extremely economical results.

Grooving Machine



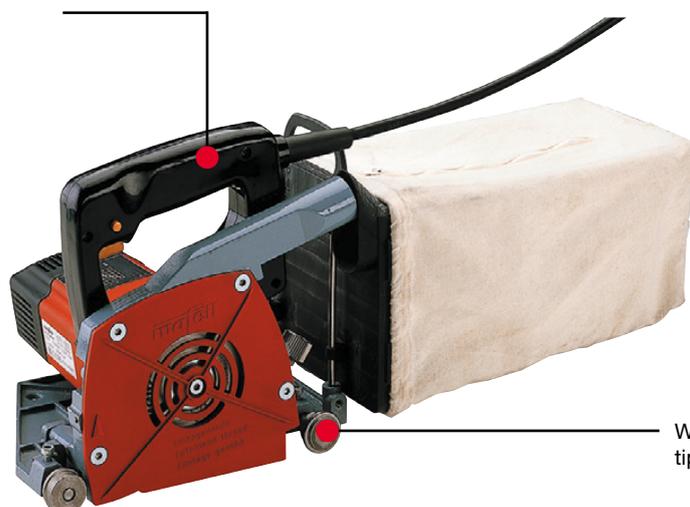
Dust Extractors



Grooving Machine

KFU 1000 E

With level compensation – for constant cutting depth.



With three rollers – to prevent tipping on uneven floors.

Product features

- Cutting blade lock
- Powerful motor
- Large chip bag

Application area

- Cutting grooves
- Compatible materials include resilient floor coverings

Product description

The unique feature of the KFU 1000 E is the built-in cutting blade lock for fast tool changes.

The 4.9 kg (10.8 lbs) weight and the 10 m (32.8 ft) mains cable give the KFU 1000 E freedom of movement and a large operating radius. The powerful 900 watt (1.2 hp) single-phase motor allows a speed of 8000 – 1500 rpm and an accordingly clean cutting result.

With the stepless electronic controls, you can use the machine for all types of material. Simply set the right speed and off you go!

Smallest possible wall distance: only 11.5 mm (7/16 in.).
If you prefer to work upright, we offer an exclusive additional handle as an optional accessory.

Technical data

	KFU 1000 E
Nominal input	900 W
Nominal no-load speed	8000 - 15000 1/min
Cutting tool Ø	120 mm
Cutting depth	0 - 4,5 mm
Weight	4,9 kg
Universal-motor	230 V / 50 Hz

Delivery specification

Grooving Machine KFU 1000 E	951101
-----------------------------	--------

Delivery scope includes:

1 Grooving-cutting blade TCT, elliptical, 120 x 3.6 x 20 mm (4 3/4 x 1/8 x 13/16 in.), 12 teeth	091794
1 Carrying case	095034
1 Allen key 4 mm	093074
1 Mains cable (32.8 ft) 10 m	087604

Conversion table for inches, pounds, horsepower please find on page 132.

PG E
Price list page 33



Steplessly adjustable cutting depth from 0 – 4.5 mm (0 - 3/16 in.) for all floor covering thicknesses. Exact adjustment of cutting depth. No accidental maladjustment of cutting depth due to automatic clamping device.

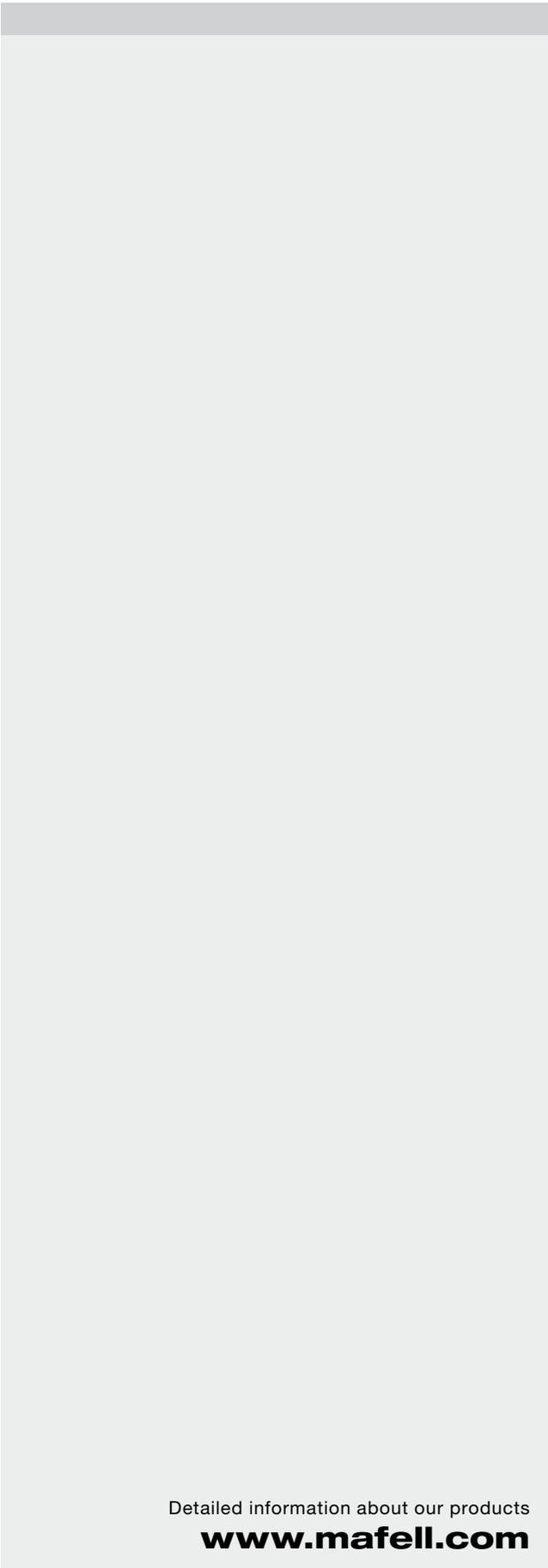
Absolutely even cutting depth, even on uneven floors due to level compensation. The floor covering surface immediately in front of the cutting blade is scanned and the cutting depth automatically corrected.

Exact grooves due to accurate guidance of the whole machine via three ball-bearing rollers. No tipping of the machine even on uneven floors.

Fully covered cutting blade for high safety standard. Efficient extraction prevents chips from hindering the rollers.

Accessories / Tools

Image	Description	Ref. No.
	Groove-cutting blade elliptical, TCT, 120 x 3.6 x 20 mm (4 3/4 x 1/8 x 13/16 in.), 12 teeth	091794
	Groove-cutting blade elliptical, TCT, 120 x 4.2 x 20 mm (4 3/4 x 3/16 x 13/16 in.), 12 teeth	091795
	Guide roller R 1,5	202274
	Hand grooving tool semicircular, with 5 replacement knives	091460
	Replacement knives semicircular, for hand grooving tool	091467
	Additional handle, long	202545



Detailed information about our products
www.mafell.com

Dust Extractors

S 25 M / S 50 M

Conveniently located on the front of the appliance are the on/off switch, the switch for automatic vibration and pulse filter cleaning/vibration, the speed control for adjusting the suction force, and the volume flow indicator.

When used for wet suction cleaning, the appliance cuts out automatically when its maximum capacity is reached.



The M-class dust extractors are supplied with a handy mounting plate for accommodating a MAFELL-MAX case.

Practical hose connector – quick-action/bayonet catch with additional keeper.

Product features

- Type approval for dust class M
- Automatic filter cleaning by vibration
- Anti-static equipment included in delivery specification

Application area

- For wet and dry pick-up
- For picking up waste
- Compatible materials include dust, chips, liquids

Product description

Whether sawing, drilling or sanding, the innovative MAFELL dust extractors are designed to keep the workplace clean.

All the appliances are equipped with microprocessor-controlled electronics for safe and efficient operation. The features include smooth starting, which eases the load on both the appliance and the power circuit, and automatic running-on to ensure that the hose is emptied when the extractor is switched off. In addition, the speed control allows the suction force to be adjusted according to the extent of contamination and the hose diameter.

The S 25 M and S 50 M models are tested for compliance with dust class M and, in view of their substantial dust retention capacity, suitable for use as standard industrial and commercial vacuum cleaners.

A long service life is ensured by the high-performance motor fan with bypass cooling. Ideal for wet and dry suction cleaning.

Thanks to the automatic on/off switch, the MAFELL dust extractors can be used for extracting the dust created by all other makes of power tool as well. All the MAFELL models are also suitable for picking up liquids.

Technical data

	S 25 M	S 50 M
Nominal input	1200 W	1200 W
Bin capacity	25 l	50 l
Hose connector	Ø 66/58 mm	Ø 66/58 mm
Low air pressure	248 mbar	248 mbar
Volume flow rate	220 m³/h	220 m³/h
Weight	13,2 kg	19,1 kg
Bin water capacity	20 l	40 l
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Dimensions (W x L x H)	500 x 405 x 565 mm	590 x 455 x 645 mm

Delivery specification

Dust Extractor S 25 M	915910
Dust Extractor S 50 M	915901

Delivery scope includes:

1 Extraction hose 4 m (13.1 ft) Ø 27 mm (1 1/16 in.), anti-static with bayonet lock Ø 6 mm (2 5/8 in.), hose connector Ø 35 mm (1 3/8 in.)	093684
1 Fold filter cartridges 1 pair, Cellulose (8600 cm²)	093673
1 MAX-holder	
1 Handle (S 50 M)	
1 Filter bag S 25 M 21 l useful capacity S 50 M 45 l useful capacity	
1 Mains cable 8 m (26.2 ft)	

Conversion table for inches, pounds, horsepower Please find on page 132.

PG A
Price list page 33



The MAFELL-MAX case containing your power tool can easily be mounted on the S 25 M or S 50 M for transportation.

Once secured to the appliance, the MAFELL-MAX can serve as a bench for small workpieces.

Clean and easy: the hose connector with 35 mm soft cone allows not only MAFELL power tools to be connected simply, but other makes too.

The new type of filter system, which is especially efficient, has been designed specifically for use with power tools.



Accessories / Tools		
Image	Description	Ref. No.
	Extraction hose 4 m (13.1 ft.) Ø 21 mm (13/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093679
	Extraction hose 4 m (13.1 ft.) Ø 27 mm (1 1/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093684
	Extraction hose 5 m (16 ft.) Ø 35 mm (1 3/8 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093681
	Extraction hose 4 m (13.1 ft.) Ø 27 mm (1 1/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, static	093680
	Extraction hose 2,5 m (8.2 ft.) 49 mm (1 15/16 in.) with cone 58 mm (2 5/16 in.), torsion joint, 66 mm (2 5/8 in.) bayonet, static	093682
	Hand-held extraction set	093694
	MAFELL-MAX	095044
	Filter cartridges 1 pair, polyester (8600 cm ²)	093674
	Filter cartridges 1 pair, cellulose (8600 cm ²)	093673

Accessories / Tools		
Image	Description	Ref. No.
	Filter bag set pieces, capacity: 21 Liter for S 25 / S 50 M	093678
	Filter bag set pieces, capacity: 45 Liter for S 50 / S 50 M	093677
	Reducing socket 58 / 35 mm	203602

Recommended use - extraction hoses				
Which hose diameter is suitable for which machine?				
Machine type	Hose connector			
	21 mm	27 mm	35 mm	49 mm
P1 cc	•	•		
KSS 300	•	•		
KSS 400		•		
KSS 400 / 36 V		•		
PSS 3100 SE			•	
MT 55 cc		•		
MS 55		•		
MS 55 / 36 V		•		
KSP 40 Flexistem	•	•		
KSP 55 F		•		
KSP 55 / 36 V		•		
KSP 65 F / 85 Fc		•		
K 85 / K 85 Ec		•		
KSS 80 Ec / 370		•		
MKS 130 Ec				•
MKS 145 / 165 Ec				•
MKS 185 Ec				•
Z 5 Ec		•		
ERIKA 60 E		• ¹⁾	• ¹⁾	•
ERIKA 70 Ec		• ²⁾	• ²⁾	•
ERIKA 85 Ec		• ²⁾	• ²⁾	•
DD40	•	•		
UVA 115 E	•	•		
UX 150 E	•	•		
MHU 82		•	•	
LNf 20		•		
LO 50 E		•		
LO 65 Ec		•		
NFU 32				•
MF 26 cc		• ³⁾		
SKS 130		•		

¹⁾ Reducing socket required
²⁾ Unless a reducing socket is fitted, extraction can take place only from a chip channel at the bottom.
³⁾ Extraction hose inside diameter LW 35.4 mm (1 6/16 in.)

Detailed information about our products
www.mafell.com

Dust Extractors

S 25 / S 50

Conveniently located on the front of the appliance are the on/off switch, the switch for automatic vibration and pulse filter cleaning/vibration, the speed control for adjusting the suction force, and the volume flow indicator.

The handlebar (standard with all 50-liter models) makes the appliance highly mobile.

When used for wet suction cleaning, the appliance cuts out automatically when its maximum capacity is reached.

Practical hose connector – quick-action/bayonet catch with additional keeper.



Product features

- Automatic filter cleaning by vibration
- Anti-static equipment included in delivery specification

Application area

- For wet and dry pick-up
- For picking up waste
- Compatible materials include dust, chips, liquids

Product description

Whether sawing, drilling or sanding, the innovative MAFELL dust extractors are designed to keep the workplace clean.

All the appliances are equipped with microprocessor-controlled electronics for safe and efficient operation. The features include smooth starting, which eases the load on both the appliance and the power circuit, and automatic running-on to ensure that the hose is emptied when the extractor is switched off. In addition, the speed control allows the suction force to be adjusted according to the extent of contamination and the hose diameter.

A long service life is ensured by the high-performance motor fan with bypass cooling. Ideal for wet and dry suction cleaning.

Thanks to the automatic on/off switch, the MAFELL dust extractors can be used for extracting the dust created by all other makes of power tool as well. All the MAFELL models are also suitable for picking up liquids.

Technical data

	S 25	S 50
Nominal input	1200 W	1200 W
Bin capacity	25 l	50 l
Hose connector	Ø 66/58 mm	Ø 66/58 mm
Low air pressure	248 mbar	248 mbar
Volume flow rate	220 m³/h	220 m³/h
Weight	13,2 kg	19,1 kg
Bin water capacity	20 l	40 l
Universal-motor	230 V / 50 Hz	230 V / 50 Hz
Dimensions (W x L x H)	500 x 405 x 565 mm	590 x 455 x 645 mm

Delivery specification

Dust Extractor S 25	915915
Dust Extractor S 50	915905

Delivery scope includes:

1 Extraction hose 4 m (13.1 ft) Ø 27 mm (1 1/16 in.), anti-static with bayonet lock Ø 6 mm (2 5/8 in.), hose connector Ø 35 mm (1 3/8 in.)	093684
1 Fold filter cartridges 1 pair, cellulose (8600 cm²)	093673
1 Handle (S 50)	
1 Filter bag S 25 21 l useful capacity S 50 45 l useful capacity	
1 Mains cable 8 m (26.2 ft)	

Conversion table for inches, pounds, horsepower please find on page 132.

PG A
Price list page 33

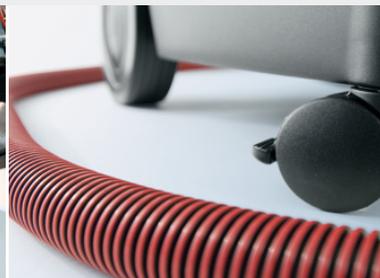
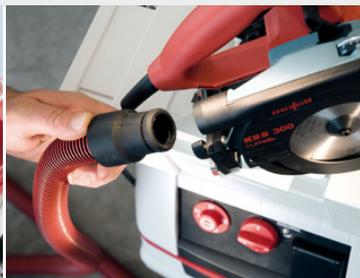


A clean working environment is easy to maintain with a MAFELL dust extractor and a set of floor tools.

The new type of filter system, which is especially efficient, has been designed specifically for use with power tools.

Clean and easy: the hose connector with 35 mm soft cone allows not only MAFELL power tools to be connected simply, but other makes too.

The low center of gravity, wide chassis and two large wheels together with locking casters offer good mobility and stability.



Accessories / Tools		
Image	Description	Ref. No.
	Extraction hose 4 m (13.1 ft.) Ø 21 mm (13/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093679
	Extraction hose 4 m (13.1 ft.) Ø 27 mm (1 1/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093684
	Extraction hose 5 m (16 ft.) Ø 35 mm (1 3/8 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, anti-static	093681
	Extraction hose 4 m (13.1 ft.) Ø 27 mm (1 1/16 in.) with soft cone 35 mm (1 3/8 in.), torsion joint, Ø 66 mm (2 5/8 in.) bayonet, static	093680
	Extraction hose 2,5 m (8.2 ft.) 49 mm (1 15/16 in.) with cone 58 mm (2 5/16 in.), torsion joint, 66 mm (2 5/8 in.) bayonet, static	093682
	Hand-held extraction set	093694
	MAFELL-MAX	095044
	Filter cartridges 1 pair, polyester (8600 cm ²)	093674
	Filter cartridges 1 pair, cellulose (8600 cm ²)	093673

Accessories / Tools		
Image	Description	Ref. No.
	Filter bag set pieces, capacity: 21 Liter for S 25 / S 25 M	093678
	Filter bag set pieces, capacity: 45 Liter for S 50 / S 50 M	093677
	Reducing socket 58 / 35 mm	203602

Recommended use - extraction hoses				
Which hose diameter is suitable for which machine?				
Machine type	Hose connector			
	21 mm	27 mm	35 mm	49 mm
P1 cc	.	.		
KSS 300	.	.		
KSS 400		.		
KSS 400 / 36 V		.		
PSS 3100 SE			.	
MT 55 cc		.		
MS 55		.		
MS 55 / 36 V		.		
KSP 40 Flexistem	.	.		
KSP 55 F		.		
KSP 55 / 36 V		.		
KSP 65 F / 85 Fc		.		
K 85 / K 85 Ec		.		
KSS 80 Ec / 370		.		
MKS 130 Ec				.
MKS 145 / 165 Ec				.
MKS 185 Ec				.
Z 5 Ec		.		
ERIKA 60 E		. ¹⁾	. ¹⁾	.
ERIKA 70 Ec		. ²⁾	. ²⁾	.
ERIKA 85 Ec		. ²⁾	. ²⁾	.
DD40	.	.		
UVA 115 E	.	.		
UX 150 E	.	.		
MHU 82		.	.	
LNf 20		.		
LO 50 E		.		
LO 65 Ec		.		
NFU 32				.
MF 26 cc		. ³⁾		
SKS 130		.		

¹⁾ Reducing socket required
²⁾ Unless a reducing socket is fitted, extraction can take place only from a chip channel at the bottom.
³⁾ Extraction hose inside diameter LW 35.4 mm (1 6/16 in.)

Detailed information about our products
www.mafell.com

Conversion table

**Conversion table
mm to inches**

10 mm	3/8 in.
40 mm	1 9/16 in.
45 mm	1 3/4 in.
55 mm	2 3/16 in.
65 mm	2 9/16 in.
85 mm	3 3/8 in.
130 mm	5 1/8 in.
145 mm	5 11/16 in.
165 mm	6 1/2 in.
185 mm	7 5/16 in.
240 mm	9 7/16 in.
260 mm	10 1/4 in.
330 mm	13 in.
380 mm	14 15/16 in.
400 mm	15 3/4 in.
500 mm	19 11/16 in.

**Conversion table
W to horsepower**

100 W	0.1 hp
400 W	0.5 hp
700 W	0.9 hp
900 W	1.2 hp
1000 W	1.3 hp
1100 W	1.5 hp
1300 W	1.7 hp
1800 W	2.4 hp
2100 W	2.8 hp
2200 W	3.0 hp
2700 W	3.6 hp
2800 W	3.8 hp
3000 W	4.0 hp
4350 W	5.8 hp

**Conversion table
kg to pounds**

1.0 kg	2.2 lbs
2.8 kg	6.2 lbs
3.1 kg	6.8 lbs
5.5 kg	12.1 lbs
8.0 kg	17.6 lbs
9.0 kg	19.8 lbs
10.0 kg	22.0 lbs
15.3 kg	33.7 lbs
17.5 kg	38.6 lbs
21.0 kg	46.3 lbs
23.0 kg	50.7 lbs
32.0 kg	70.5 lbs
34.5 kg	76.1 lbs
42.0 kg	92.6 lbs

Terms of business

1. General

1.1. These terms are valid for all export orders. Individual contractual covenants take precedence, but the customer's terms of business are valid only if expressly confirmed by us in writing.

2. Offers

2.1 Our offers and cost estimates are not binding and do not become effective until the order is confirmed by us in writing.

2.2 The documents that belong to the offer, including illustrations, drawings and information on weights and dimensions, are only approximately accurate unless expressly declared binding. We retain ownership of and the copyright to cost estimates, drawings and other documents; they must not be placed at the disposal of third parties.

3. Delivery

3.1 Our written order confirmation is binding as regards the scope of supply. Accessories that belong to the delivery scope are stated in our sales documents and/or offers. Variations owing to model changes are reserved.

3.2 Goods that we are not obliged to take back can be returned only with our express consent. Returns must always be made postage paid and shall be subject to a charge of EUR 20.00 for processing and storage. The customer reserves the right to prove lower costs. We exclude the return of electrical/electronic components.

3.3 The goods supplied by us can be exported directly or indirectly only with our written approval. In case this stipulation is infringed, we are entitled to claim compensation.

4. Delivery period

4.1 The delivery period starts when the order confirmation is sent, but not before all documents, permits and releases to be procured by the customer are furnished and not before an agreed advance has been paid. If non-compliance with time limits is attributable to force majeure, such as mobilization, war, unrest or similar occurrences, such as strikes or lockouts, the delivery period shall be extended accordingly.

4.2 Claims for compensation because of late delivery are excluded.

5. Risk transfer

5.1 The risk is transferred to the customer when the goods are dispatched by us even in case of part deliveries or if we have undertaken other performances, such as cost of carriage or transportation.

5.2 If delivery is postponed by circumstances for which the customer is responsible, the risk is transferred to the customer on the day the goods are ready for dispatch.

5.3 Part deliveries are allowed.

6. Prices and payment

6.1 The valid prices are those that apply on the day of dispatch plus statutory value added tax.

6.2 In case of deliveries of small quantity and/or value, unless the small quantity or value is attributable to a part delivery, a minimum charge of EUR 10.00 plus value added tax shall be made. It is therefore recommended to place orders for goods whose value is at least equivalent to this amount.

6.3 As a general rule the prices are ex works or store. Different price arrangements are subject to special notification or express agreement.

6.4 If a payment extension is granted or if payments are made later than agreed, we can charge interest in the amount of 4.0% above the valid discount rate of the European Bank (EZB) for the interim period without putting the customer in default. The customer reserves the right to prove a lower loss.

6.5 We reserve the right to stipulate cash on delivery.

7. Terms of payment

7.1 Our receivables are payable in euros within 30 days of the invoice date net or as agreed. Deliveries to overseas countries will be effected against irrevocable and confirmed letter of credit only, to be established in our favor with Dresdner Bank AG, Freudenstadt. Invoices for repair charges are payable net immediately. The payment period ends when the money is at our disposal with one of our banks. A cash discount can be deducted only if no prior receivables are due for payment.

7.2 Bills and checks are accepted only in place of performance; the cost of discounting and collection shall be borne by the customer. Payment by bill has to be agreed in advance.

7.3 In case of a material deterioration in the customer's financial situation, all outstanding receivables shall fall due for payment immediately.

8. Retention of title

8.1 We reserve title to all delivered goods until all our existing and future claims arising from the business relationship, irrespective of their cause in law, are settled in full. Insofar as the value of all our security interest exceeds the amount of all secured claims by more than 20%, we shall release an amount of the security interest as appears just at the customer's request.

8.2 The customer can sell the goods to which title is retained only if title is once again retained and only in the course of regular business. This right lapses in case the customer suspends payments. The customer now assigns to us all its claims and ancillary rights arising from the resale. The assigned claims serve to secure all claims according to 8.1. The customer has the right to collect the assigned claims until we revoke this entitlement. The customer is not entitled otherwise to dispose of the claim, such as by assignment. The collection right lapses, even if not expressly revoked, if the customer suspends payments. If the collection right lapses or is revoked, we are entitled ourselves to collect the claims. The customer undertakes to furnish us with all the information required to collect the assigned claim. He also undertakes at his own expense to issue us with documents certified by a notary public relating to the assignment of the claims.

8.3 Pledging the delivered goods, or securing a debt by a lien thereon subject to retention of title, is not allowed. The party delivering must be notified immediately in case of seizure by a third party.

8.4 If the customer culpably infringes material contractual obligations, in particular in case of late payment, we are entitled to take back the goods after due notice, and the customer is obliged to surrender the goods. Taking back the goods or invoking the retention of title or our seizure of the goods to which title was retained shall not be deemed withdrawal from the contract save as expressly declared by us.

9. Offset

9.1 The customer is entitled to offset against our payment claims only if the counter-claims are not disputed or non-appealable. He can assert a pledge or right of retention only if the underlying claim is not disputed or non-appealable.

9.2 We are entitled to offset our own claims against payables due to the customer.

10. Warranty and liability for defects in delivered goods or absence of assured properties

10.1 We reserve the right to remedy defective deliveries by repair or exchange. All parts or performances whose usefulness is materially impaired within 12 months - irrespective of the period of operation - calculated from the date of risk transfer as a consequence of a circumstance existing before the transfer of risk shall be repaired free of charge or exchanged by new delivery or performance.

10.2 Warranty claims become statute barred after notification to us and after the legal fixed warranty period. The notification must be made in writing without delay.

10.3 If we have been notified of a defect, the customer can withhold a reasonable amount of payment according to the extent of the defect. If the contract belongs to the business of his commercial enterprise, the customer can withhold payments only if a defect is being asserted whose justification is indisputable.

10.4 We must be granted reasonable time and opportunity to remedy defects. In case of refusal, we shall be accordingly exempted from the warranty.

10.5 If we allow a reasonable period of grace granted us to expire without remedying the defect, the customer can demand that the contract be reversed (rescission) or the consideration reduced (reduction of purchase price).

10.6 The warranty does not cover natural wear and tear or damage occurring after the transfer of risk and caused by incorrect or negligent treatment, overloading or unsuitable operating media or which occurs because of external influences not anticipated by the contract, and it does not cover non-reproducible software faults. If the customer or third parties have made modifications or executed repairs improperly, these and the consequences arising therefrom shall be excluded from the warranty.

10.7 For repairs, exchange deliveries or substitute performance the legal fixed warranty period is valid. It shall run at least until the original warranty period for the delivery item expires. It shall be extended for parts that cannot usefully be operated because of the interruption by the duration of interrupted operation caused by the repair, exchange delivery or substitute performance.

10.8 Goods on which work covered by warranty is to be performed must be returned postage paid. Repaired goods shall be sent back postage unpaid.

10.9 If performance supposed to be under warranty reveals that the damage is not covered by our warranty, the costs incurred shall be borne by the customer.

10.10 We are not obliged to eliminate defects insofar as the customer does not fulfill his payment obligations.

10.11 The time limits stated in 10.1, 10.2 and 10.7 are invalid insofar as the law pursuant to § 638 BGB (German Civil Code) prescribes longer periods.

10.12 Further warranty claims of the customer against us and those employed by us in the performance of our obligations are excluded, whereby item 11 (other liability) remains unaffected.

11. Other liability

Claims for compensation by the customer are excluded irrespective of their cause in law, in particular claims arising from positive breach of obligation, the infringement of obligations during contractual negotiations and tort. This does not apply insofar as, for example, liability is mandatory according to product liability law or in cases of intent, gross negligence, the absence of assured properties or the infringement of material contractual obligations. Compensation for the infringement of material contractual obligations is restricted, however, to typical and foreseeable loss except in case of intent or gross negligence. A change in the burden of proof to the prejudice of the customer is not associated with the preceding provisions.

12. Our right of withdrawal

12.1 If we learn after concluding the delivery contract that the customer is in financial difficulty, we can demand security for the counter-performance or withdraw from the contract and charge for incurred expenses.

12.2 We are also entitled to withdraw from the contract wholly or in part, observing reasonable notice, if we are or a supplier is affected by unforeseen events in the meaning of clause 4.1 or if it is subsequently revealed that the contract cannot be fulfilled.

12.3 The customer cannot assert claims for compensation because of such withdrawal.

13. Place of performance and venue

13.1 The place of performance shall be 78727 Oberndorf a.N..

13.2 The venue shall be Oberndorf Local Court and/or Rottweil Regional Court.

13.3 The contractual relationship and its interpretation shall be governed exclusively by German law, ousting the United Nations Convention on Contracts for the International Sale of Goods.

14. Validity

The remainder of the contract remains valid even if individual provisions are legally invalid. This does not apply if sustaining the contract would impose an unreasonable burden on one of the parties.

11/2008