

mafell



Portable circular saws

K 85 / K 85 Ec

Cross-cutting system

KSS 80 Ec / 370

The saw of the future, available now.

Pivot point aligned with bottom edge of track



Perfect cutting quality, even when executing bevel cuts: The portable circular saws have been optimized for operation with the guide track. The K 85 / K 85 Ec always cut exactly along the rubber lip.



The K 85 / K 85 Ec portable circular saws and KSS 80 Ec / 370 cross-cutting system offer compelling new solutions for appreciably greater ease of use and efficiency.

Manual retraction of pivoting guard



The pivoting guard is quickly and simply retracted from the saws' second handle. This allows the machine to be offered up easily and reliably, especially when executing bevel cuts.

Highly efficient chip removal



The chips are carried away so efficiently that the vacuum channel cannot become blocked, even when fiberboard is being cut. This benefit is especially crucial when executing plunge cuts in the fiber direction.



Making perfect saw cuts even easier to achieve.

WORKING CLOSE TO THE EDGE OF NARROW MATERIAL



It couldn't be simpler:

The new edge guide facilitates precision even in difficult cutting situations. Two scales on the arms allow the dimensions to be set exactly.

PLUNGE CUTS



It couldn't be simpler:

Practical 2-in-1 functionality greatly eases the execution of plunge cuts. Dispensing with a detachable riving knife, the spring-mounted FLIPP-KEIL further facilitates reliable plunge cutting.



It couldn't be simpler:

Changing the blade of the K 85 / K 85 Ec is a fast, safe and easy operation. Simply press release button (1) and lift lever (2), lock pivoting guard (3) in the housing, release the flange, take out and exchange the blade, lock it in position and release lever (2).

FAST BLADE CHANGES

Whether working close to the edge, executing perfect cross-cuts, or plunge or angle cuts, facilitating rapid blade changes, or offering an elegant solution for adjusting the cutting depth, the K 85 / K 85 Ec and KSS 80 Ec / 370 epitomize ease of use and efficiency.

CROSS-CUTTING TRACK | KSS 80 Ec / 370 ONLY



It couldn't be simpler:

With the KSS 80 Ec / 370 cross-cutting system, the portable circular saw is permanently attached to the guide track, thus forming an integral sawing unit.

One fixed and one adjustable stop allow the saw to be used for angle cuts from -60° - -50° . You simply push the saw against the work with the two stops on the underside of the track, operate the saw, and the job's done. The track automatically adopts the starting position once the cut has been executed.

Great performance with the cross-cutting track:

Simply scan the code and watch the film.



mafell.de/kss80v

The K 85/ K 85 Ec and KSS 80 Ec / 370 can be used to cut solid wood, panels, fiberboard, doors and worktops, as well as insulating materials.



It couldn't be simpler:

The angle fence is easy to attach to the guide track. Simply attach, adjust and lock the adapter, and set the desired angle. The workpiece can now be cut at the exactly set angle.

PRECISE CUTTING RESULTS

The K 85 / K 85 Ec: Welcome to the future of sawing.

FLIPPKEIL

Dispensing with a detachable riving knife, the spring-mounted FLIPPKEIL facilitates reliable plunge cutting. When the blade enters the material, it maintains the starting position initially, before automatically entering the kerf.



Innovative pointer

The new pointer automatically follows the machine as it is tilted. It therefore accurately tracks the actual cutting edge over a distance of 52 mm.

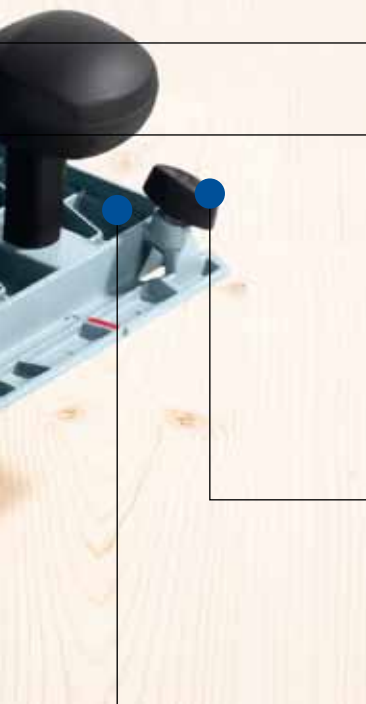
For carpenters, builders, joiners and interior finishers, the K 85 / K 85 Ec saws are perfectly equipped to meet the future challenges of the woodworking trades. Not only in view of their exemplary material and build qualities, but also thanks to their well-conceived user-friendliness. They enable you to save time and energy, and invest your working resources instead in getting the job done well.



The CUprex high-performance motor stands for sheer strength and outstanding motive power. Its output is optimized by digital electronics. The speed of the K 85 Ec is continuously variable to suit a wide range of materials and applications.



Fast and reliable cutting depth adjustment
The 2-in-1 functionality allows the cutting depth to be set quickly and reliably. Simply release lock (1), set the cutting depth on the scale, and re-engage the lock. Plunge cuts are controlled by the same method.



Fence locking
When working with the parallel fence and edge guide, the four locking points and scale reference point facilitate precise adjustment.



Outstanding scale readability
Thanks to the new tilting arrangement of the K 85 / K 85 Ec, reading the scale is easier than ever before, from 0 to 60°.



Repeat stop for cutting depth
The cutting depth can be preset and locked in the range from 25 to 88 mm.



High build quality
The honeycomb design of the magnesium die-cast baseplate achieves extreme rigidity and an optimized weight profile.

The KSS 80 Ec / 370: Making light work of perfect cross-cuts.

FLIPPKEIL

Dispensing with a detachable riving knife, the spring-mounted FLIPPKEIL facilitates reliable plunge cutting. When the blade enters the material, it maintains the starting position initially, before automatically entering the kerf.



Detaching the track

The quick-release catch enables you to detach the machine from the track in a single, quick action. The saw can then be used as a separate portable circular unit with all the functionality of the K 85 / K 85 Ec.



Innovative pointer

The new pointer automatically follows the machine as it is tilted. It therefore accurately tracks the actual cutting edge over a distance of 52 mm.

For those who regularly execute cross-cuts, the KSS 80 Ec / 370 takes user-friendliness to the next level. The specially designed guide track makes cross-cutting faster and neater than ever before – down to a depth of 80 mm.



High build quality

The honeycomb design of the magnesium die-cast baseplate achieves extreme rigidity and an optimized weight profile.



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Technical data and accessories



K 85

Favorably priced entry-level model
Electronic, boxed



K 85 Ec

Full-spec version in carrying case
Electronic, variable speed, with parallel fence, in MAFELL L-MAX case



KSS 80 Ec / 370

KSS cross-cutting version for >80 mm cutting depth!
Variable speed, with parallel fence, boxed

Technical data

Nominal input	2.300 W (3.1 hp)	2.300 W (3.1 hp)	2.300 W (3.1 hp)
Nominal no-load speed	4.400 rpm	2.250 – 4.400 rpm	2.250 – 4.400 rpm
Cutting depth	0 – 88 mm (3 7/16 in.)	0 – 88 mm (3 7/16 in.)	0 – 82 mm (3 1/4 in.)
Cutting depth at 45°	0 – 61.5 mm (2 7/16 in.)	0 – 61.5 mm (2 7/16 in.)	0 – 55.5 mm (2 3/16 in.)
Cutting depth at 60°	0 – 44.5 mm (1 3/4 in.)	0 – 44.5 mm (1 3/4 in.)	0 – 38.5 mm (1 1/2 in.)
Cutting depth at 90°	–	–	370 mm (14 9/16 in.)
Tilt range	0 – 60°	0 – 60°	0 – 60°
Weight	7.3 kg (16.1 lbs)	7.3 kg (16.1 lbs)	8.8 kg (19.7 lbs)

Ref. No.

918201

918202

918501

Delivery scope includes

1 TCT saw blade
237 x 1,8/2,5 x 30 mm
(9 5/16 in.), AT, 12 teeth
1 Allen key 5 mm
1 Mains cable 4 m (13.1 ft)

1 TCT saw blade
237 x 1,8/2,5 x 30 mm
(9 5/16 in.), AT, 12 teeth
1 Allen key 5 mm
1 Mains cable 4 m (13.1 ft)
1 Parallel guide fence
1 L-MAX

1 TCT saw blade
237 x 1,8/2,5 x 30 mm
(9 5/16 in.), AT, 12 teeth
1 Allen key 5 mm
1 Mains cable 4 m (13.1 ft)
1 Parallel guide fence
1 Guide track 370

The new portable circular saw in the 85 mm class is available in three high-performance versions. You can select from a variety of tools and attachments to suit individual applications.



K 85-PA

Parallel guide fence with 2 scales
Ref. No. 205323



K 85-UA

Roller edge guide with 2 scales
Ref. No. 205166



Z 12-WZ

Z 24-WZ

Z 56-WZ

TCT sawblades

237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth for ripping and cross-cutting wood

Ref. No. 092590

237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 24 teeth for cross-cutting wood

Ref. No. 092591

237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 56 teeth for fiberboard and cross-cutting wood

Ref. No. 092592



Guide rail F

F 80 – 0,8 m (2.6 ft) long
F 110 – 1,1 m (3.6 ft) long
F 160 – 1,6 m (5.2 ft) long
F 210 – 2,1 m (6.9 ft) long
F 310 – 3,1 m (10.2 ft) long

Ref. No. 204380
Ref. No. 204381
Ref. No. 204365
Ref. No. 204382
Ref. No. 204383



Guide pocket F 160

for guide rails up to 1,6 m
Ref. No. 204626

Guide pocket set:

2 x F 160 + F-VS + 2 x F-SZ 100MM
+ guide pocket
Ref. No. 204805

Guide pocket set:

F 80 + F 160 + F-WA + F-VS
+ 2 x F-SZ 100MM
+ guide pocket
Ref. No. 204749



Connecting piece F-VS

for joining two guide rails
Ref. No. 204363



Angle fence F-WA

Ref. No. 205357



End cap F-EK

2 pieces
Ref. No. 205400



Non-slip profile F-HP 6,8M

6,8 m (22.3 ft.) long
Ref. No. 204376



Splinter guard F-SS 3,4M

3,4 m (11.2 ft.) long
Ref. No. 204375



Aerofix F-AF 1 suction clamping system

with rail, adapters for above and underneath rail, flexible hose
Ref. No. 204770

Flexible hose FXS 1000MM

up to 3,2 m (10.6 ft) long
Ref. No. 205276



Screw clamp F-SZ 100MM

2 pieces, for fixing guide rail to workpiece
Ref. No. 205399



Here at MAFELL, we often adopt a new approach in our quest to develop better machines. We take a fresh look and reconsider the crucial aspects of the tool concerned. And we always give due consideration to the future needs of the woodworking trades.

Time and again, together with outstanding material and build quality, our strategy spawns astounding solutions. We thus continuously enhance functionality and user-friendliness, for example. We strive to ensure that, while you are working, you no longer need to give the tool a second thought. Simply because MAFELL has already done the thinking for you. You focus on your job – and as far as everything else is concerned:

Follow your instinct.

Your MAFELL authorized dealer: