

**mafelli**



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](http://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.

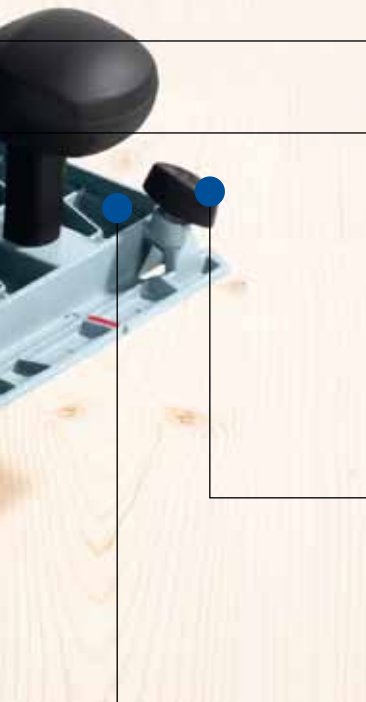


**The CUprex high-performance motor** stands for sheer strength and outstanding motive power. Its output is optimized by digital electronics. The speed of the K 85 Ec is continuously variable to suit a wide range of materials and applications.



**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.



#### 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.



#### Outstanding scale readability

Thanks to the new tilting arrangement of the KSS 80 Ec / 370, reading the scale is easier than ever before, from 0 to 60°.



The **Cuprex high-performance motor** stands for sheer strength and outstanding motive power. Its output is optimized by digital electronics. The speed of the KSS 80 Ec / 370 is continuously variable to suit a wide range of materials and applications.



#### Repeat stop for cutting depth

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

# 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

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

<b>Ref. No.</b>	<b>918201</b>	<b>918202</b>	<b>918501</b>
-----------------	---------------	---------------	---------------

## 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

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

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

**Ref. No. 092590**

**Ref. No. 092591**

**Ref. No. 092592**



**Guide rail F**

F 80 – 0,8 m (2.6 ft) long **Ref. No. 204380**  
F 110 – 1,1 m (3.6 ft) long **204381**  
F 160 – 1,6 m (5.2 ft) long **204365**  
F 210 – 2,1 m (6.9 ft) long **204382**  
F 310 – 3,1 m (10.2 ft) long **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. 204799**



**Connecting piece F-VS**

for joining two guide rails  
**Ref. No. 204363**



**End cap F-EK**

2 pieces  
**Ref. No. 205400**



**Angle fence F-WA**

**Ref. No. 205357**



**Non-slip profile F-HP 6,8M**

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



**Aerofix F-AF 1 suction clamping system**

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



**Splinter guard F-SS 3,4M**

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

**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: