

## The saw of the future, available now.

### Cross cuts



An ideal application for guide L is cutting structural timber to length, with a max. cutting depth of 82 mm and a max. cross-cutting length of 370 mm.

### Rip cuts



Ripping with a guide rail or parallel fence and an ample cutting depth. The two high-performance 18 V batteries of the K 85-18 combine to deliver a sustained output of 36 V.



The portable circular saw K85, the new battery version K85-18 and cross-cutting system KSS80 convince with practical solutions for noticeably more ease of use and efficiency.

### **NEW: LED work lamp**



Bright LEDs illuminate a large working area. In sleep mode, a timer switches the light off after 10 seconds.

### ErgoBalance principle



With the MAFELL ErgoBalance-Concept, our portable circular saws are optimized for all types of work. This not only enables precise work, but also optimum ergonomic guidance. This effectively prevents fatigue - despite twice the battery power.



**NEW:** With 2 CAS batteries for exceptional power, independence and thanks to the CAS battery system, nothing stands in the way of flexible use of other system partners.





# Making perfect saw cuts even easier to achieve.



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 85-18 / K 85 and KSS 80 epitomize ease of use and efficiency.



# The K 85 / K 85-18: Welcome to the future of sawing.

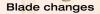


The K 85 / K 85-18 saws are perfectly equipped to meet the future challenges of the woodworking trades. Not only in view of their exemplary material and build qualities, but also thanks to their well-conceived user-friendliness and compatible dual-battery technology.



## 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.



For a fast blade change, simply press the release button, lift the lever and lock the pivoting guard in the housing.



## 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, reading the scale is easier than ever before, from 0 to 60°.



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



#### 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 system: Making light work of perfect cross-cuts.



The KSS 80 offers even greater ease of use for frequent cross-cuts. The specially designed guide track makes cross-cutting faster and neater than ever before - down to a depth of 82 mm.



# The MAFELL ErgoBalance principle: focusing on the user.

#### MORE CONTROL

#### Flexible settings

The scales, pointers and levers/locks are perfectly arranged to facilitate precise settings.



## User-friendly switch positioning

The lockout and operating switches are conveniently positioned on the handle.



## Ergonomic depth adjustment

The 2-in-1 functionality allows the cutting depth to be set quickly and reliably. Simply release lock, set the cutting depth on the scale, and reengage the lock. Plunge cuts are controlled by the same method.



## BETTER BALANCE

#### Handle shape

By sitting comfortably in the hand and offering generous contact for all the fingers, the ergonomic handle fosters relaxed and fatigue-free operation.



## Perfect center of gravity

All our machines have an ideal center of gravity for fatigue-free working – irrespective of the selected attachment or power pack.





With the MAFELL ErgoBalanceConcept, our portable circular saws are optimized for all types of work. This not only enables precise work, but also optimum ergonomic guidance. This effectively prevents fatigue - despite twice the battery power.



## Battery technology: delivering even greater stamina.

## **NEW**



LiHD batteries set new standards in the combination of high performance, long service life and versatility. The high-performance cells of the LiHD batteries offer maximum power for every application.

## Li HDX

With the new tabless technology, the current is no longer transmitted via individual points, but via a full-surface connection of anode and cathode. This results in lower internal resistance and less heating of the cells for

- Even better performance
- · Even longer running times and service life



## **ENHANCED PERFORMANCE**

- New cell technology in a re-engineered power pack.
- High-current busbars and enlarged contacts.
- Special copper alloy cell connectors for 3x enhanced conductivity.

## LONGER SERVICE LIFE, EXTREMELY RUGGED

- Outstanding protection against internal contamination provided by full encapsulation, varnished circuit boards and the well sealed cover.
- Cells protected by rubber buffers.
- More usable energy results in less frequent charging.
- Rubberized battery pack offers non-slip stability and impact protection.

## LONGER RUNTIME

 More active material in the cells, use of highgrade materials (silver and copper). The upgraded PowerTanks for our cordless tools feature advanced processor-controlled battery technology. A key advantage lies in continuous monitoring of all the relevant parameters of the individual battery cells, including temperature and charge. The floating battery cells are also ideally protected against mechanical influences. This ensures a prolonged long service and fewer downtimes.

## CAS. MAKING EVERYTHING EASY.



## Technical data / Delivery scope includes

| Туре                   | K 85-18                               | K 85                     | KSS 80                   |
|------------------------|---------------------------------------|--------------------------|--------------------------|
| Technical data         |                                       |                          |                          |
| Nominal input          | -                                     | 2.300 W (3.1 hp)         | 2.300 W (3.1 hp)         |
| Nominal voltage        | 2 x 18 V                              | -                        | -                        |
| Nominal no-load speed  | 2.800 -5.200 rpm                      | 2.250 – 4.400 rpm        | 2.250 – 4.400 rpm        |
| Cutting depth off rail | 0 – 88 mm (3 7/16 in.)                | 0 – 88 mm (3 7/16 in.)   | 0 – 88 (3 7/16 in.)      |
| at 45°                 | 0 – 61.5 mm (2 7/16 in.)              | 0 – 61.5 mm (2 7/16 in.) | 0 – 61.5 mm (2 7/16 in.) |
| at 60°                 | 0 – 44.5 mm (1 3/4 in.)               | 0 – 44.5 mm (1 3/4 in.)  | 0 – 44.5 mm (1 3/4 in.)  |
| Cutting depth on rail  | 0 - 82 mm (1 3/4 in.)                 | 0 - 82 mm (3 1/4 in.)    | 0 - 82 mm (3 1/4 in.)    |
| Cutting length at 90°  | -                                     | _                        | 370 mm (14 9/16 in.)     |
| Tilt range             | 0 – 60 °                              | 0 – 60°                  | 0 – 60°                  |
| Angle cuts             | 1 (0 1 ) 1 (1 ) 1                     |                          | -60 - +50°               |
| Weight (EPTA)          | 8.1 kg (17,9 lbs) (including battery) | 6.8 kg (15 lbs)          | 8.4 kg (18,5 lbs)        |







#### Model

Delivery scope includes

#### 91E302 Cordless Portable Circular Saw K 85-18 PURE in L-MAX

- 1 TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth
- 1 Parallel guide fence K 85-PA
- 1 Allen key 5 mm

### 91E701 Portable Circular Saw K 85

- 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 10 m (32.8 ft)

#### 91F201 Cross-Cutting System KSS 80

- 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 Parallel guide fence K 85-PA
- 1 Guide track L
- 1 Mains cable 10 m (32.8 ft)



## Ausführung

Delivery scope includes

#### 91E302 + 208171 Cordless Portable Circular Saw K 85-18 PURE in L-MAX

- 1 TCT saw blade 237 x 1,8/2,5 x 30 mm (9 5/16 in.), AT, 12 teeth
- 1 Parallel guide fence K 85-PA
- 1 Allen key 5 mm
- +
- 1 Guide track L



#### 91E702 Portable Circular Saw K 85 in 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 Parallel guide fence K 85-PA
- 1 Mains cable 10 m (32.8 ft)

## Tools / Special accessories

| llustration | Designation   | Order<br>No. | Illustration   | Designation  | Orde<br>No. |
|-------------|---|--------------|--|--|-------------|
| 1 1 1       | Guide rail  | 1            |  | Dust bag   | 206921      |
|             | F 80, 0,8 m (2,6 ft) long   | 204380       | Time   |  |             |
|             | F 110, 1.1 m (3.6 ft) long  | 204381       | mot.   |  |             |
|             | F 160, 1.6 m (5.2 ft) long  | 204365       | AUT (  |  |             |
|             | F 210, 2,1 m (6,9 ft) long  | 204382       |  |  |             |
|             | F 310, 3,1 m (10,2 ft) long   | 204383       |  | Parallel guide fence   | 205323      |
|             |   |              |  | K 85-PA  | 200020      |
|             | Connecting piece F-VS for joining two guide rails                           | 204363       |  |  |             |
|             | Angle fence F-WA  | 205357       |  | <b>Roller edge guide</b><br>K 85-UA  | 205166      |
|             |   |              |  | TCT saw blade  | 092590      |
|             | Suction clamping system<br>Aeroxfix F-AF 1F                                 | 204770       | 11 = 1   | 237 x 1.8/2.5 x 30 mm (9 5/16 in.),<br>AT, 12 teeth for rip cuts in wood   |             |
|             | with 1,3 m rail, adapters for above and underneath rail, flexible hose      |              | 11 3   | TCT saw blade<br>237 x 1,8/2,5 x 30 mm (9 5/16 in.),<br>AT, 24 teeth, for rip cuts and   | 092591      |
|             | Flexible hose FXS-L<br>up to 3,2 m (10.6 ft) long                           | 205276       | - Andrews  | cross-cutting in wood  TCT saw blade   | 092592      |
|             | Guide rail bag<br>TZ-FST  | 095257       | 1 FA   | 237 x 1.8/2.5 x 30 mm (9 5/16 in.),<br>AT, 56 teeth for cross-cutting in<br>wood   |             |
|             | for guide rails<br>up to 1,6 m  | 000500       |  |  |             |
|             | Guide pocket set:   | 209592       | Morrowan   | -  |             |
|             | F 80 + F 160 + F-WA +   |              |  | L-MAX  | 095170      |
|             | F-VS + 2 x F-SZ 180MM   |              |  |  |             |
|             | + Guide pocket  |              | 4 1  |  |             |
|             |   | 209591       | -10  |  |             |
|             | Guide pocket set:<br>2 x F 160 + F-VS + 2 x F-SZ 180<br>MM + 1 guide pocket |              |  |  |             |
|             | Guide track L   | 208171       |  | Battery-PowerTank  | 094503      |
|             | max. cutting length 370 mm  |              |  | 18 M 99 LiHD (18 V, 99 Wh, 5,5 Ah)   |             |
|             | (14 9/16 in.)   |              | A A  |  |             |
|             |   |              |  | Battery-PowerTank  |             |
|             |   |              | CAS TOTAL  | 18 M 144 LiHD (18 V, 144 Wh, 8 Ah  | 094498      |
|             | End cap F-EK  | 205400       |  | 1  |             |
|             | 2 pieces  |              |  | Battery-PowerTank  | 094520      |
|             |   |              |  | 18 M 144 LiHDX   |             |
|             | Non alia profile E UD C CM  | 004070       |  | (18 V, 144 Wh, 8 Ah)   |             |
|             | Non-slip profile F-HP 6,8M<br>6.8 m (22.3 ft.) long                         | 204376       | CAS TO   |  |             |
|             | On Enternment   | 004077       |  | Battery-PowerStation   | 094492      |
|             | Splinter guard  | 204375       |  | APS M, 18 V  |             |
|             | F-SS 3,4M   |              | A STATE OF THE STA | THE STATE OF THE S |             |
| ,           | 3.4 m (11.2 ft.) long   |              |  | High-speed charger<br>APS M+   | 094509      |
| 1           | Lever clamp   | 207770       |  |  |             |
|             | F-SZ 180MM; 2 pieces,<br>for fixing guide rail to workpiece                 |              |  | Power-Set 2<br>2x 18 M 99 LiHD + APS M   | 209599      |
|             |   |              | Millian Segment  | Power-Set 3  | 209598      |
| 1           |   |              |  | 2x 18 M 144 LiHD + APS M+  | 230000      |
|             |   |              |  |  |             |
|             |   |              | The second second  | Power-Set 4  | 212615      |
|             |   |              |  | 2x 18 M 144 LiHDX + APS M+   |             |

In order to develop a better tool for carpenters, we at MAFELL often take a special approach: We change our point of view and completely reconceive the tool in essential parts. At the same time, we always keep in mind the future requirements of the woodworking trade.

From this way of thinking, paired with an outstanding material and processing quality, amazing solutions emerge again and again. For example, in terms of functionality and ease of use. It is our claim that you no longer have to think about your tools when doing your work. Simply because we at MAFELL have already done so extensively. After all, we have a common goal: the perfect job. Or in brief:

## creating excellence

Your MAFELL authorized dealer: