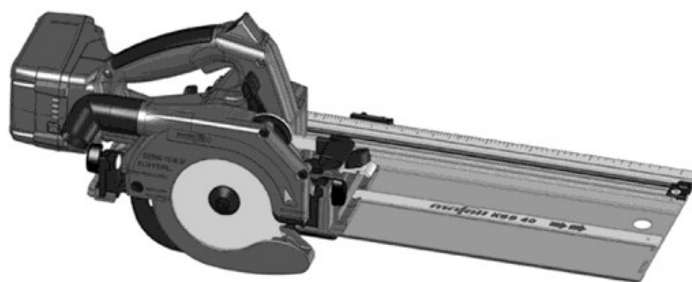


| | | | |
|-----------|----------------------------|--|-----|
| de | Kapp-Sägesystem | Originalbetriebsanleitung | 5 |
| en | Cross-Cutting System | Translation of the original operating instructions | 17 |
| fr | Système de mise à longueur | Traduction de la notice d'emploi originale | 29 |
| it | Sistema sega troncatrice | Traduzione delle istruzioni per l'uso originali | 42 |
| nl | Kap-zaagsysteem | Vertaling van de originele gebruiksaanwijzing | 54 |
| es | Sistema de tronzar | Traducción del manual de instrucciones original | 66 |
| fi | Katkaisusahajärjestelmä | Käännös alkuperäiskäyttöohjeesta | 78 |
| sv | Kapsågsystem | Översättning av originalbruksanvisningen | 89 |
| da | Kap-savesystem | Oversættelse af den originale betjeningsvejledning | 100 |



MAF02100/a

WARNUNG

Lesen Sie alle Sicherheitshinweise und Anweisungen. Versäumnisse bei der Einhaltung der Sicherheitshinweise und Anweisungen können elektrischen Schlag, Brand und/oder schwere Verletzungen verursachen. **Bewahren Sie alle Sicherheitshinweise und Anweisungen für die Zukunft auf.**

WARNING

Please read all safety instructions and directions. Failure to comply with the safety instructions and directions can cause electric shock, fire and/or serious injuries. **Please retain all safety instructions and directions for future reference.**

AVERTISSEMENT

Veillez lire toutes les consignes de sécurité et instructions. Tout non-respect des consignes de sécurité et instructions risque d'être à l'origine de décharges électriques, d'incendies et/ou de blessures graves. **Conservez toutes les consignes et instructions pour pouvoir les relire à tout moment.**

AVVERTENZA

Leggere tutte le avvertenze di sicurezza e le istruzioni. La mancanza del rispetto delle avvertenze di sicurezza e delle istruzioni possono causare scossa elettrica, incendio e/o gravi lesioni. **Conservare tutte le avvertenze di sicurezza e le istruzioni per il futuro.**

WAARSCHUWING

Lees alle veiligheidsaanwijzingen en instructies. Nalatigheid bij het naleven van de veiligheidsinstructies en aanwijzingen kan elektrische schok, brand en/of ernstige letsels veroorzaken. **Bewaar alle veiligheidsaanwijzingen en instructies voor later gebruik.**

ADVERTENCIA

Lea todas las indicaciones de seguridad e instrucciones. Si no se cumplen las indicaciones de seguridad e instrucciones, se pueden producir descargas eléctricas, incendios y/o lesiones graves. **Guarde todas las indicaciones de seguridad e instrucciones para el futuro.**

VAROITUS

Lue kaikki turvaohjeet ja käyttöohjeet. Laiminlyönti turvaohjeiden ja käyttöohjeiden noudattamisessa voi aiheuttaa sähköiskun, tulipalon ja/tai vakavia vammoja. **Säilytä kaikki turvaohjeet ja käyttöohjeet tulevaisuuden varalle.**

VARNING

Läs alla säkerhetsanvisningar och anvisningar. Underlåtenhet att följa säkerhetsanvisningar och anvisningar kan orsaka elstöt, brand och/eller allvarliga personskador. **Behåll alla säkerhetsanvisningar och anvisning för framtida användning.**

ADVARSEL

Læs alle sikkerhedshenvisninger og instruktioner. En manglende overholdelse af sikkerhedshenvisningerne og instruktionerne kan føre til elektrisk stød, brand og/eller alvorlige kvæstelser. **Opbevar alle sikkerhedshenvisninger og instruktioner til fremtidig brug.**

D - EG Konformitätserklärung

Wir bescheinigen hiermit, dass die Maschine KSS40 18 M bl den angeführten EU-Richtlinien entspricht. Bei Konstruktion und Bau wurden die gelisteten Normen angewendet.

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen: Mafell AG

GB - EC Declaration of Conformity

We herewith confirm that the machine KSS40 18 M bl complies with the EU directives quoted. The standards listed were used for design and construction.

Empowered person for the configuration of the technical documents: Mafell AG

F - Déclaration CE de conformité

Nous déclarons par la présente que la machine KSS40 18 M bl est conforme aux directives CE applicables comme suit. Lors de la construction, les règlements suivants ont été utilisés.

Plénipotentiaires pour l'assemblage des documentations techniques: Mafell AG

I - Dichiarazione di conformità CE

Con la presente certifichiamo che la macchina KSS40 18 M bl è conforme alle seguenti direttive CE applicabili. Nella progettazione e la costruzione sono state applicate le seguenti norme.

Responsabile per la composizione della documentazione tecnica: Mafell AG

NL - EG conformiteitsverklaring

Wij bevestigen hiermede dat de machine KSS40 18 M bl aan de vermelde EU-richtlijnen beantwoord. Bij constructie en bouw werden de vermelde normen toegepast.

Gemachtigde voor de samenstelling van de technische documenten: Mafell AG

E - Declaración de conformidad CE

Con la presente se certifica que la máquina KSS40 18 M bl cumple las directivas europeas mencionadas, las cuales forman la base tanto del diseño constructivo como de los procesos de fabricación.

Apoderado legal para la compilación de la documentación técnica: Mafell AG

FIN - EY-vaatimustenmukaisuusvakuutus

Vakuutamme täten, että kone KSS40 18 M bl vastaa mainittujen EU-direktiivien vaatimuksia. Sen suunnittelussa ja valmistuksessa on sovellettu luettelossa ilmoitettuja standardeja.

Teknisten asiakirjojen laatimiseen valtuutettu henkilö: Mafell AG

S - EG Konformitetsförklaring

Vi intygar härmed att maskinen KSS40 18 M bl uppfyller angivna EU direktiv. De angivna normerna användes vid konstruktion och tillverkning.

Befullmäktigad för sammanställningen av den tekniska dokumentationen: Mafell AG

DK - EU overensstemmelseserklæring

Vi attesterer hermed, at maskinen KSS40 18 M bl opfylder de angivede EU-direktiver. Konstruktion og bygning er udført iht. de angivede standarder.

Person, der er befuldmægtiget til at sammenstille det tekniske materiale: Mafell AG



2006/42/EG
2014/30/EU
2011/65/EU

EN 60745, EN 55014-1, EN 55014-2,
EN 12100, EN 1037, EN 847-1

KSS40 18 M bl

Art.-Nr. 919801, 919802, 919821, 919825,
919831

Mafell AG

D - 78727 Oberndorf, den 30.05.2018

Dipl.-Ing. Matthias Krauss
Vorstandsvorsitzender / CEO

i. V. Dr. Helmut Lauckner
Leitung Entwicklung und Konstruktion

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1 Signs and symbols



This symbol appears at places where you will find instructions for your own safety.

Non-compliance with these instructions may result in very serious injuries.



This symbol indicates a potentially hazardous situation.

If this situation is not avoided, the product or objects in its vicinity may get damaged.



This symbol indicates tips for the user and other useful information.

2 Product information

in respect of machines with item number 919801, 919802, 919821, 919823 or 919825

2.1 Manufacturer's data

MAFELL AG, Beffendorfer Straße 4, D-78727 Oberndorf / Neckar, Phone +49 (0)7423/812-0, Fax +49 (0)7423/812-218

2.2 Machine identification

All details required for machine identification are available on the attached rating plate.



CE symbol to document compliance with the basic safety and health requirements according to Appendix I of the Machinery Directive.



For EU countries only

Do not dispose of electrical tools together with domestic waste!

In accordance with the European directive 2002/96/EC on waste electrical and electronic equipment and transposition into national law, obsolete electrical tools must be collected separately and recycled in an environmentally-compatible manner.



To reduce the risk of injury, please read the operating instructions.



Protect the rechargeable battery from heat, excessive solar radiation, fire, frost, water and humidity.

Protect rechargeable battery packs from humidity!



Protect rechargeable battery packs from fire!

There is danger of explosion!

2.3 Technical data

| | |
|---|---|
| Nominal voltage | 18 V $\overline{\text{---}}$ |
| Saw blade speed while idling | 6700 rpm |
| Cutting depth 0°/45° | 42/29 mm (1 21/32, 1 9/64 in.) |
| Tilting saw unit | 0 – 45° |
| Saw blade diameter max/min | 122/112 mm (4 51/64, 4 13/32 in.) |
| Saw blade body thickness | 1.2 mm (3/64 in.) |
| Tool cutting width | 1.8 mm (0.070 in.) |
| Saw blade mounting hole | 20 mm |
| Hose connector diameter | 28 mm (1 7/64 in.) |
| Weight with rechargeable battery, without parallel stop | 2.8 kg (6.2 lbs) |
| Dimensions incl. guide assembly (W x L x H) | 200 x 580 x 200 mm (7 7/8 x 21 21/32 x 7 7/8 in.) |
| as cross-cutting system | |
| Cutting depth 0°/45° | 40/27 mm (1 9/16, 1 1/16 in.) |
| Cutting length at 12/40 mm workpiece thickness | 337/292 mm (13 1/4, 11 1/2 in.) |
| Weight with rechargeable battery and guide assembly | 3.6 kg (7.9 lbs) |

2.4 Noise emission specifications

Noise emission values determined according to EN 60745-1 and EN 60745-2-5:

| | Sound power level | Workplace-related emission value |
|-----------|--------------------------|---|
| Machining | 103 dB (A) | 92 dB (A) |

The noise measurement was recorded using the saw blade included in the standard equipment.

The values stated are emission levels. Although there is a correlation between emission and imission level, it cannot be reliably derived from this whether additional precautions are necessary. Factors influencing the current imission level existing at the workplace comprise the duration of exposure, the room characteristic, other source of noise, etc. such as e.g. the number of machines and other adjacent machining operations. In addition, the permissible imission level may differ from country to country. This information is nevertheless suitable for providing the machine user with an improved assessment of the hazard and risk.

2.5 Vibration specifications

The typical hand-arm vibration is less than 2.5 m/s².

2.6 Scope of supply

Cross-cutting system KSS40 18 M bl complete with:

- 1 carbide-tipped circular saw blade Ø 120 mm (4 3/4 in.), 24 teeth
- 1 riving knife/splitter (thickness 1.2 mm / 3/64 in.)
- 1 hose connector
- 1 parallel stop
- 1 service tool in bracket on the machine
- 1 carrying case Max
- 1 operating manual
- 1 folder "Safety Instructions"
- 2 clamping claws for Item No. 919801, 919821, 919823, 919825

1 FLEXI rail FX 140 for cutting length max. 140 cm (55 in.) for Item No. 919801, 919821, 919823, 919825

1 charger APS 18 M for Item No. 919801, 919821, 919823, 919825

2 rechargeable batteries 18 M 94 for Item No. 919801, 919821, 919823, 919825

1 chip bags

2.7 Safety devices



Danger

These devices are required for the machine's safe operation and may not be removed or rendered inoperative.

The machine is equipped with the following safety devices:

- Upper stationary saw guard
- Lower retractable saw guard
- Large base plate
- Handles
- Riving knife / splitter
- Index mechanism and brake
- Hose connector

2.8 Use according to intended purpose

The MAFELL cross-cutting system is exclusively suited for longitudinal and cross cutting of solid wood.

Panel materials such as chip board, core board and medium density fibre board can also be processed. Use approved saw blades according to EN 847-1.

Any other use than described above is not permissible. The manufacturer cannot be held liable for any damage arising from such other use.

So as to use the machine as intended, comply with the operating, maintenance and repair instructions specified by Mafell.

2.9 Residual risks



Danger

Even if used in accordance with its intended purpose and despite conforming with the safety instructions, residual risks caused by the intended use will always remain.

- Touching the saw blade in the vicinity of the starting aperture below the base plate.
- Touching the part of the saw blade that protrudes below the workpiece when cutting.
- Touching of turning parts from the side: saw blade, clamping flange and flange screw.
- Machine backlash if the blade gets stuck in the workpiece.
- Breakage of the saw blade and risk of the blade or pieces of the blade being hurled away.
- Accidental activation if rechargeable battery is not unplugged.
- Hearing can be impaired when working for long periods without ear protectors.
- Emission of harmful wood dusts during longer operation without extraction.
- Snapping open of the FLEXI rail if used improperly.

3 Safety instructions



Danger

Always observe the following safety instructions and the safety regulations applicable in the respective country of use!

General instructions:

- Children and adolescents must not operate this machine. This rule does not apply to young persons receiving training and being supervised by an expert.
- Never work without the protection devices stipulated for the respective operating sequence and do not effect any modifications on the machine that could impair safety.
- Protect the machine and the rechargeable batteries from humidity!
- Do not throw the rechargeable batteries into a fire!

- Do not use any defective or deformed rechargeable batteries!
- Do not open the rechargeable batteries!
- Do not touch the contacts of the rechargeable batteries and do not short-circuit them!
- A slightly acidic, combustible liquid may leak from defective li-ion rechargeable batteries! If any battery liquid is leaking and comes in contact with the skin, immediately rinse with a copious amount of water. If any battery liquid gets into your eyes, rinse with clean water and immediately consult a doctor for medical treatment!
- Remove the rechargeable batteries from the machine before carrying out any setting, retooling, maintenance or cleaning tasks.
- Ensure that the machine is switched off when you push in the rechargeable battery.
- Please remove the rechargeable battery from the machine if the machine is put down, transported or stored unattended.
- Never support the workpiece in your hand or over your leg. Secure the workpiece against a sturdy support.
- When sawing with connected guide rail, the machine may only be removed from the workpiece if it is in home position and the retractable saw guard is closed.
- Only hold the device by its isolated handle surfaces when carrying out work during which the cutting tool could hit concealed power cables.
- Always use a limit stop or a straight edge guide for longitudinal cutting.
- Always use correctly sized saw blades with matching mounting hole (e.g. star-shaped or round).
- Never use damaged or incorrect saw blade washers or screws.
- Hold the saw with both hands and bring your arms into a position where you are able to resist the backlash forces. Always stay on the side of the saw blade, never bring the saw blade in line with your body.
- If the saw blade jams or sawing is interrupted for another reason, release the on/off switch and keep the saw steady in the workpiece until the saw blade stands completely still. Never try to remove the saw from the workpiece or to pull it backwards while the saw blade is still moving or while a backlash could occur.
- If you would like to restart a saw that is stuck in the workpiece, centre the saw blade in the saw slit and check whether the saw teeth are stuck in the workpiece.
- Support large plates to reduce the risk of backlash caused by a jammed saw blade.
- Do not use any blunt or damaged saw blades.
- Before starting to saw, tighten the cutting depth and cutting angle adjustments.
- Be especially careful when making a "plunge cut" into a concealed area, e.g. into an existing wall.
- Prior to every use, check whether the lower saw guard is closing properly. Do not use the saw if the lower saw guard is not freely movable and does not close immediately. Never clamp or tie down the lower saw guard in an open position.
- Check the function of the spring for the lower saw guard. Have the device serviced if the bottom saw

Do not use:

- Cracked and misshapen saw blades.
- Saw blades made of high speed steel (HSS saw blades).
- Blunt saw blades as they impose an excessive load on the motor.
- Saw blades with a base body with a thickness greater than, or a cutting width (setting) less than, the thickness of the riving knife / splitter.
- Saw blades which are not suitable for the saw blade's idling speed.

Instructions on the use of personal protective equipment:

- Always wear ear protectors during work.
- Always wear a dust mask during work.

Instructions on operation:

- Do not reach with your hands into the sawing area and do not touch the saw blade. With your other hand, support the supplementary handle or the motor casing.
- Do not reach under the workpiece.
- Adapt the cutting depth to the workpiece thickness.

guard and the spring are not in perfect working order.

- Only manually open the lower saw guard for special cuts, such as "plunge and angle cuts". Open the lower saw guard using the retracting lever and release the lever as soon as the saw blade has penetrated the workpiece.
- Do not place the saw on the work bench or on the floor without the lower saw guard covering the saw blade.
- Use the saw blade that matches the riving knife/splitter.
- Adjust the riving knife/splitter as described in the operating instructions.
- Always use the riving knife/splitter except for "plunge cuts".
- For the riving knife/splitter to function, it has to be located in the saw slit.
- Never operate the saw with bent riving knife/splitter.
- Examine the workpiece for foreign objects. Never attempt to cut into nails or other metal objects.

Instructions on service and maintenance:

- Regularly cleaning the machine, especially the adjusting devices and guides, constitutes an important safety factor.
- Only original MAFELL spare parts and accessories may be used. Otherwise the manufacturer will not accept any warranty claims and cannot be held liable.

4 Setting / Adjustment

4.1 Charging the rechargeable battery

Check whether the rated voltage of the rechargeable battery agrees with the information specified on the machine.

Rechargeable battery and charger are matched to each other. Only use the MAFELL – APS 18 chargers for recharging.

Before using a new machine, first of all charge the rechargeable battery.

A description of how to start up and charge the APS 18 can be found in the appended instructions "APS 18 rechargeable power station".

The rechargeable battery is equipped with a temperature monitoring system. This guarantees that the rechargeable battery is only charged in the temperature range between 0°C and 50°C. This achieves a long service life for the rechargeable battery.

A considerably shortened operating time per charging procedure indicates that the rechargeable battery is spent and needs to be replaced.



Danger

Explosion hazard

Protect the rechargeable battery from heat, fire and moisture.

Do not place the rechargeable battery onto heating appliances and do not expose the rechargeable battery to strong solar radiation for a longer period of time. Temperatures above 50°C are detrimental to the rechargeable battery. Allow a heated rechargeable battery to cool down before charging it.

The optimum storage temperature ranges between 10°C and 30°C.



Do not open the rechargeable battery and protect it from impacts. Keep the rechargeable battery in a dry and frost-proof place.



Danger

Cover the rechargeable battery's contacts if it is stored outside the charger. There is a fire and explosion hazard in case of a short circuit caused by metallic bridging.



Follow the instructions for the protection of the environment.

4.2 Fitting the rechargeable battery

Slide the charged rechargeable battery into the battery guide behind the handle until it perceptibly engages.



Before using the machine, convince yourself that the rechargeable battery is firmly seated in the machine.

4.3 Removing the rechargeable battery

Unlock the rechargeable battery by pressing the locking lever 1 (Fig. 3) and pull it out of the battery guide.



Do not use force to do so.

4.4 Chip extraction

Connect the machine to a suitable external dust extractor during all work generating a considerable amount of dust. The air velocity must be at least 20 m/s (65.6 ft / sec.).

The internal diameter of hose connector 3 (Fig. 3) is 28 mm (1 7/64 in.).

4.5 Saw blade selection

Use a sharp tool to obtain a good cut quality and select a tool from the following list according to material and application:

For cuts along and across the grain in soft or hard wood:

- Circular saw blade carbide Ø 120 x 1.8 x 20 mm (4 3/4 x 5/64 in. x 20 mm), 24 teeth

For cuts especially along the grain in soft or hard wood:

- Circular saw blade carbide Ø 120 x 1.8 x 20 mm (4 3/4 x 5/64 in. x 20 mm), 12 teeth

For cuts especially across the grain in soft or hard wood:

- Circular saw blade carbide Ø 120 x 1.8 x 20 mm (4 3/4 x 5/64 in. x 20 mm), 40 teeth

For cuts in laminate:

- Circular saw blade carbide Ø 120 x 1.8 x 20 mm (4 3/4 x 5/64 in. x 20 mm), 40 trapezoidal teeth

Order No. see special accessories.

4.6 Saw blade change



Danger

Unplug the rechargeable battery for all service work.

- Press the locking bolt 8 (Fig. 2).
- Using the Allen-key 3 (brackets Fig. 1), unfasten the flange screw 8 (Fig. 3) **counter clockwise**;

remove the screw as well as the front clamping flange 7.

- Now you can remove the saw blade after opening the retractable saw guard 9.
- The clamping flanges must be free of adhering parts.
- Pay attention to the sense of rotation when inserting the saw blade.
- Afterwards, mount the clamping flange, attach the flange screw and tighten it by **clockwise** turning.
- In doing so, keep the locking bolt depressed.

4.7 Riving knife/splitter



Danger

Unplug the rechargeable battery for all service work.

The riving knife / splitter 6 (Fig. 3) prevents the saw blade from jamming during longitudinal cutting. The correct distance to the saw blade is shown in (Fig. 8).

- For adjustment, unfasten the screw 4 (Fig. 3) with the Allen-key supplied with the saw 3 (Fig. 1).
- Adjust the riving knife/splitter by shifting it in its longitudinal slit. Afterwards retighten the screw.

5 Operation

5.1 Initial operation

Personnel entrusted to work with the machine must be made aware of the operating instructions, calling particular attention to the chapter "Safety instructions".

5.2 Switching on and off

- **Switching on:** First press the switch-on lock 1 (Fig. 1) and then press the switch trigger 2.
- **Switching off:** To switch off, release the switch trigger.

5.3 Cutting depth adjustment

The cutting depth is continuously variable between 0 and 40 mm (1 15/16 in.).

Proceed as follows:

- Unfasten the clamping lever 5 (Fig. 1).
- Set the cutting depth with the plunge lever 6 (Fig. 2).
- The cutting depth can be read off the scale 2 (Fig. 5) on the cover. Zone 1 on the plunge lever with the red background serves as indicator for this purpose.
- Retighten the clamping lever.



Always set the cutting depth approx. 2 to 5 mm (5/64 to 13/64 in.) larger than the material thickness to be cut.

5.4 Setting for bevel cuts

For bevel cuts, the saw unit can be set to any angle between 0° and 45°.

- Unfasten the wing screws 5 (Fig. 3).
- Adjust the angle according to the scale on the segment for tilting.
- Afterwards, tighten the wing screws 5.

5.5 Setting for mitre cuts

- Release the limit stop 21 (Fig. 7) and adjust the angle plate according to the scale on the guide rail.
- Afterwards retighten the limit stop.
- Place the machine with the two stop bolts at the bottom side of the guide rail against the workpiece to be processed and carry out the cut by pushing the machine forward.
- After the cut, return the saw to its original position by reversing.

5.6 Plunge cuts



Danger

Risk of backlash during plunge cuts! Prior to plunging, place the machine with the rear edge of its base plate against a limit stop fastened on the workpiece. Keep a firm hold on the machine handle during plunging and push the saw lightly forward!

- Unfasten the clamping lever 5 (Fig. 1) on the switched off machine.
- Reset the plunge lever 6 (Fig. 2).
- Open the retractable saw guard with the lever 2 (Fig. 3) so that the machine can be placed onto the workpiece to be machined. The saw blade is now running freely above the material and can be aligned for tracing.
- Switch on the machine only now.
- Push the plunge lever 6 (Fig. 2) vertically downwards so that the saw blade plunges vertically into the workpiece. While doing so, the plunge depth can be read off the scale 2 (Fig. 5). The riving knife/splitter swings up and away when the blade enters the workpiece. As soon as the slit behind the saw blade is cleared during the forward motion of the machine, the riving knife reverts to its normal position.

5.7 Sawing with FLEXI rail



Danger

The support rail is pretensioned and may snap open in an uncontrolled manner - risk of injury. It should therefore be securely held with both hands during opening and closing.

Initial operation

Trim the splinter guard 4 (Fig. 4) before initial operation:

- Place the FLEXI rail on a flat support.
- Set the cutting depth to approx. 3 mm (1/8 in.) and the angle scale to 0°.
- Turn on the machine and push it evenly in the direction of the cut.

The resulting cut edge on the splinter guard serves as tracing edge for straight cuts and bevel cuts.

- Place the FLEXI rail onto the workpiece. Knock against the workpiece and align it on the tracing.

So as to fix the FLEXI rail, tighten the two clamping claws 1 (Fig. 6) with the screw clamps.

Operating method

- Set the cutting depth and cutting angle on the machine.
- Place the machine on the start of the FLEXI rail such that the guide elements 1 (Figure. 4) of the rail engage in the base plate groove.
- Turn on the machine and push it evenly in the direction of the cut.



Do not clean the FLEXI rail with solvents. Non-skid coating may get damaged.

5.8 Sawing shadow gaps

The minimum shadow gap width is:

- if used without parallel stop 13 mm (33/64 in.)
- if used with parallel stop 14 mm (35/64 in.) (at cutting depth of 0 - 32 mm / 0 – 1 ¼ in.)
- if used with parallel stop 18 mm (45/64 in.) (at cutting depth of 32 - 42 mm / 1 ¼ - 1 21/32 in.)
- Set the required cutting depth.
- Retract the retractable saw guard with the lever 2 (Fig. 3) and set the machine onto the first fitted workpiece.
- Switch on the machine and push the machine evenly in cutting direction, in addition using the extraction device.

5.9 Sawing with parallel stop

The parallel stop 4 (Fig. 1) serves to cut parallel to an already existing edge. The limit stop can be attached to the left or right of the machine. The cutting range on the right-hand side amounts to approx. 65 mm (2 9/16 in.) and on the left-hand side to approx. 250 mm (9 27/32 in.).

- You can adjust the cutting width after unfastening the wing screws 9 (Fig. 2) by moving the limit stop accordingly and afterwards refastening the wing screws.

In addition, by simply turning it over (guide surface for the workpiece edge is pointing upwards), the parallel stop can be used as double support to improve machine guidance. Now the machine can be guided along a lath that is fastened on the workpiece.

5.10 Sawing according to tracings with guide rail

When sawing according to tracing, the right edge of the guide rail serves as tracing indicator. This also applies to bevel cuts. Please take note of Section 5.4.

- For sawing, place the guide rail onto the workpiece.
- Switch on the machine (see Chapter 5.2) and slide the machine evenly in cutting direction.
- When the cut is completed, switch off the saw by releasing the switch trigger 2 (Fig. 1)
- While it is resting on the workpiece, pull the machine back into home position and in this position remove it from the workpiece. Proceeding in this manner ensures that the retractable saw guard is completely closed.

5.11 Sawing according to tracings without guide rail



Danger

When sawing without guide rail it is imperative to install the enclosed parallel stop. It serves as double support to improve machine guidance and is for your safety.

Set the machine's cutting depth to at least 30 mm (1 3/16 in.). Afterwards, you can remove the machine from the guide rail to the rear by actuating the locking lever 20 (Fig. 7).

The base plate is equipped with a tracing edge 10 (Fig. 3) both for straight cuts and for bevel cuts. This tracing edge corresponds to the saw blade's inside. For bevel cuts, the tracing can be viewed through the opening on the left-hand side of the upper saw guard.

- Hold the machine by its handles and place the front part of its base plate onto the workpiece.
- Switch on the machine and evenly advance the machine in cutting direction.
- When the cut is completed, switch off the saw by releasing the switch trigger 2 (Fig. 1).

6 Service and maintenance



Danger

Unplug the rechargeable battery for all service work.

MAFELL machines are designed to be low in maintenance.

The ball bearings used are greased for life. When the machine has been in operation for a longer period of time, we recommend to hand the machine in at an authorised MAFELL customer service shop for inspection.

Only use our special grease, order No. 049040 (1 kg tin) for all greasing points.

6.1 Storage

If the machine is not used for a longer period of time, it has to be carefully cleaned. Spray bright metal parts with a rust inhibitor.

6.2 Transport

The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements. The user can transport the batteries by road without further requirements.

When being transported by third parties (e.g.: air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.

Dispatch batteries only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

Please also observe possibly more detailed national regulations.

6.3 Disposal of rechargeable batteries/batteries



The machine, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.

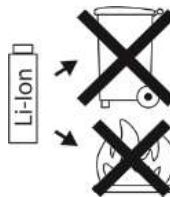
Do not dispose of power tools and batteries/rechargeable batteries into household waste!

Only for EC countries:



According to the European Guideline 2002/96/EC, power tools that are no longer usable, and according to the European Guideline 2006/66/EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

Battery packs/batteries:



Li-ion:

Please observe the instructions in section "Transport", page 26.

Subject to change without notice.

7 Troubleshooting



Danger

Determining the causes for existing defects and eliminating these always requires increased attention and caution. Pull the mains plug beforehand!

Some of the most frequent defects and their causes are listed in the following chart. In case of other defects, contact your dealer or the MAFELL customer service.

| Defect | Cause | Remedy |
|--------------------------------|--|---|
| Machine cannot be switched on. | Discharge the rechargeable battery | Charge the rechargeable battery |
| | Rechargeable battery not engaged in end position | Allow rechargeable battery to engage completely |

| Defect | Cause | Remedy |
|--|---|---|
| Rechargeable battery almost empty, an LED on the rechargeable battery is flashing. | Electronic system protects the rechargeable battery from deep discharge. | Check, press button 11. Fig. 3 + 9 Only one LED is still glowing. Charge the rechargeable battery. |
| Overload, machine switches off. | A sustained load has overheated the machine or the rechargeable battery. A warning signal is sounded (constant bleeping). It will go out after max. 30 seconds or after the switch trigger is released. | Allow the machine and the rechargeable battery to cool down. The rechargeable battery can be cooled down much faster with a charger with air cooling. The machine can also be cooled down much faster by using a different rechargeable battery and idling the machine. |
| The machine switches off at a sudden increase in load. | The sudden increase in load also causes the current that is required for the machine to rise. This rise in current, which occurs when there is a sudden blockage or backlash, is measured and then leads to the machine being switched off. | Switch off the machine by releasing the switch trigger. Afterwards, you can switch the machine back on again and resume work as normal. Try to avoid further blockages. |
| Saw blade jams when the machine is advanced. | Feed rate too fast | Reduce feed speed |
| | Blunt saw blade | Release the switch immediately. Remove the machine from the workpiece and replace the saw blade |
| | Tension in the workpiece | |
| | Poor machine guidance | Use parallel stop |
| | Uneven workpiece surface | Straighten the surface |
| Burn marks on the cut surfaces | The saw blade used is unsuitable for the task or blunt | Replace saw blade |
| Chip ejection blocked | Wood is too damp | |
| | Extended operation without extraction | Connect to an external extraction, e.g. portable dust extractor |

8 Special accessories

- Saw blade carbide Ø 120 x 1.8 x 20 mm (4 ¾ x 5/64 in. x 20 mm), 12 teeth (longitudinal cut) Order No. 092560
- Saw blade carbide Ø 120 x 1.8 x 20 mm (4 ¾ x 5/64 in. x 20 mm), 24 teeth (longitudinal and cross cuts) Order No. 092558
- Saw blade carbide Ø 120 x 1.8 x 20 mm (4 ¾ x 5/64 in. x 20 mm), 40 teeth (cross cut) Order No. 092559
- Saw blade carbide Ø 120 x 1.8 x 20 mm (4 ¾ x 5/64 in. x 20 mm), 40 teeth (laminate) Order No. 092578
- FLEXI rail FX 140, cpl. Order No. 204372
- Accessories for FLEXI rail:
 - Screw clamp Order No. 093281
- Extraction device S 50 M Order No. 915901
- Extraction device S 25 M Order No. 919710
- Suction device S 25 L Order No. 919715
- Extraction device S 35 M Order No. 919701
- Rechargeable battery 18 M 94 Order No. 094436

9 Exploded drawing and spare parts list

The corresponding information in respect of spare parts can be found on our homepage: www.mafell.com