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MAF01571/a

WARNING

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

Veuillez 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 letsets 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 elstötar, 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 LO 65 Ec 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 atesterer hermed, at maskinen LO 65 Ec opfylder de angivede EU-direktiver. Konstruktion og bygning er udført iht. de angivede standarder.

Person, der er befudt med 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 61000-3, EN 12100, EN 1037

LO 65 Ec

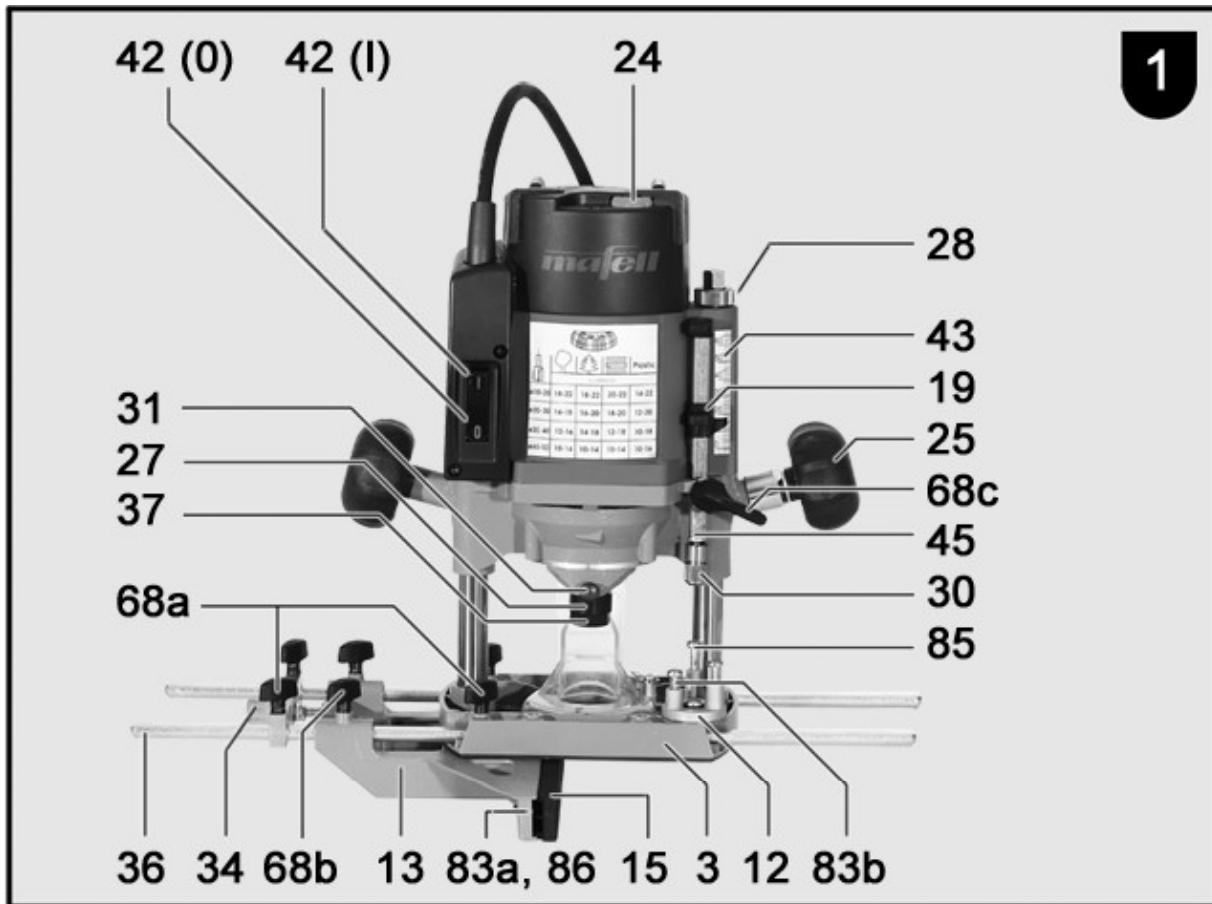
Art.-Nr. 916901, 916920, 916921, 916922, 916950, 916951, 916955, 916960

Mafell AG

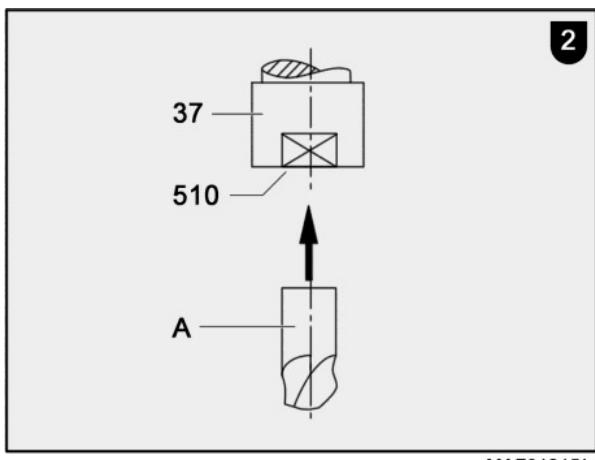
D - 78727 Oberndorf, den 21.06.2018

Dipl.-Ing. Matthias Krauss
Vorstandsvorsitzender / CEO

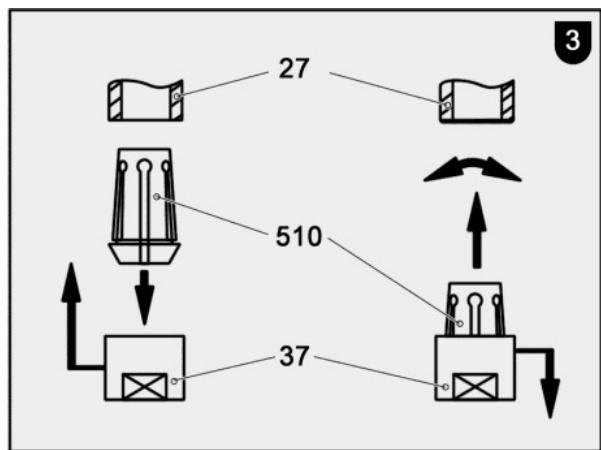
i. V. Dr. Helmut Lauckner
Leitung Entwicklung und Konstruktion



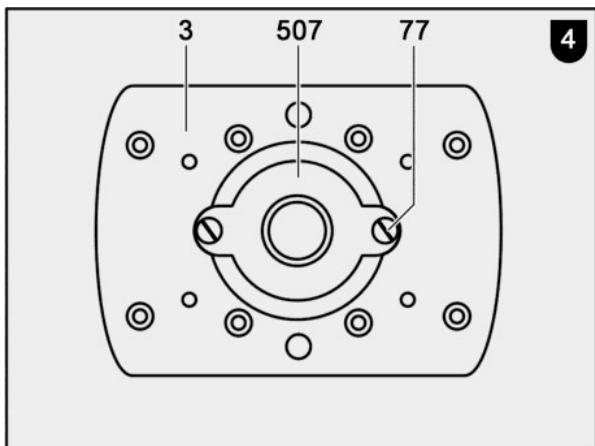
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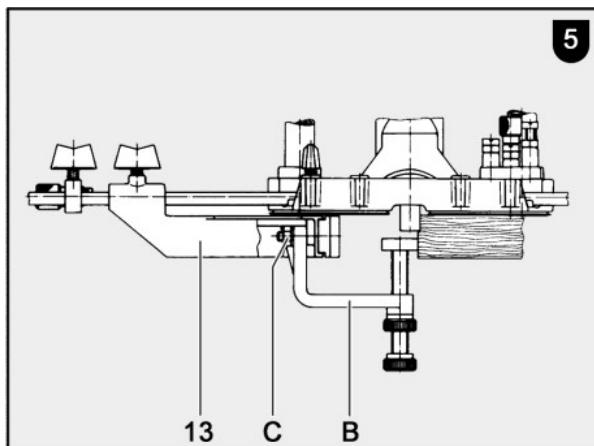
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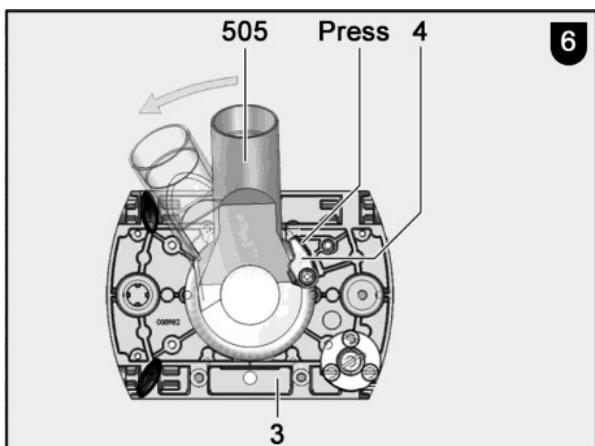
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1 Signs and symbols



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

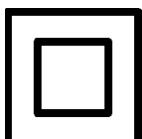
for machines with product no. 916901, 916920, 916921, 916922, 916950, 916951, 916955 or 916960

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.



Protection class II



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 electric tools together with household waste material!

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.

2.3 Technical data

Universal motor, radio and TV interference suppressed	230 V~, 50 Hz
Input power continuous operation	2600 W
Milling depth adjustment with fine adjustment	0 - 65 mm (0- 17/16 in.)
Revolving depth control turret	3-stage
Tool fastening:	
with collets	Ø 6 – 12 mm and Ø 1/2"
or with adapter for router bit	M 12 x 1 (M 10)
Idling speed	10000 - 22000 rpm
Connection diameter at extraction hood	35 mm (1 3/8 in.)
Weight without mains cable	6,9 kg (15.2 lbs)

2.4 Noise emission specifications

Noise emission values determined according to EN 60745-1 and EN 60745-2-17:

	Sound power level	Workplace-related emission value
Idling	99 dB (A)	88 dB (A)
Machining	106 dB (A)	95 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 immission level, it cannot be reliably derived from this whether additional precautions are necessary. Factors influencing the current immission 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 immission 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 3.3 m/s².

2.6 Scope of supply

Router LO 65 Ec MaxiMAX	LO 65 Ec MidiMAX
Item No. 916901, 916920, 916921, 916922	(specially suited for template milling)
1 parallel guide fence	Item-No. 916950, 916951, 916955
1 template guide Ø 30 mm	1 template guide Ø 30 mm
1 collet Ø 8 mm (Ø 1/2" - GB)	1 adapter for router bit M 12 x 1
1 adapter for router bit M 12 x 1	1 extraction hood
1 extraction hood	1 operating tool
1 operating tool	1 operating manual
1 operating manual	1 folder "Safety Instructions"
1 folder "Safety Instructions"	

2.7 Use according to intended purpose

The MAFELL router LO 65 Ec is exclusively intended for milling of solid wood and panel materials such as chip board, coreboard, synthetic board and Mdf-board using HSS or TCT milling cutters.

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.

2.8 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 running milling cutter or the cap nut.
- Breakage of the milling cutter and risk of the milling cutter or pieces of the milling cutter being hurled away.
- Backlash of the machine or the workpiece.
- Touching live parts with the housing open and the mains plug not removed.
- Hearing can be impaired when working for long periods without ear protectors.
- Emission of harmful wood dusts during longer operation without extraction.

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 prescribed for the respective operating sequence and do not make any changes to the machine that could impair safety.
- When operating the machine outdoors, use of an earth-leakage circuit-breaker is recommended.
- Damaged cables or plugs must be immediately replaced. Replacement may only be carried out by Mafell or an authorised MAFELL service workshop in order to avoid safety hazards.
- Avoid sharp bends in the cable. Especially when transporting and storing the machine, do not wind the cable around the machine.
- Only use sharp and undamaged milling cutters. You will achieve improved surfaces and reduce the danger of backlash.
- Before starting up, check the tight seat of the milling cutter and its correct running.
- Only use milling cutters approved for manual feed.
- Only begin milling the workpiece when the milling cutter has achieved its full speed.
- Always lead the connecting cable away from the machine to the rear while milling.
- Always mill in counter direction while working on edges with larger tools.
- Only put down the machine after switching off once the milling cutter has come to a standstill or unscrew the clamping for the automatic reverse stroke on the machine and lock the latter again.

Instructions on the use of personal protective equipment:

- The noise pressure level at the ear generally exceeds 85 dB(A). Operators should therefore wear ear protectors.
- Always wear protective goggles during milling.
- You should wear a dust mask to prevent any damage to health.

Instructions on operation:

- Never reach into the working range of the milling cutter or underneath the base plate while the machine is running.
- Firmly hold onto the machine with both hands already before switching it on.
- Whenever possible, secure the workpiece against slipping, e.g. with screw clamps.
- Milling cutters must be replaced in good time, as blunt milling cutters do not only increase the danger of backlash, but also place an unnecessary strain on the motor. The milling cutters must be clamped in accordance with 4.3.
- Examine the workpiece for foreign objects. Do not mill into metal parts, e.g. nails (danger of backlash).
- The power plug must be pulled before replacing tools, making adjustments and repairing malfunctions (this also comprises removing jammed chips).

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 Mains connection

Prior to commissioning make sure that the mains voltage complies with the operating voltage stated on the machine's rating plate.

4.2 Chip extraction (see Fig. 6)

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 is 35 mm (1 3/8 in.).

4.2.1 Assembly of the extraction hood

Place extraction hood 505 onto base plate 3 and turn it clockwise until it engages.

4.2.2 Disassembly of the extraction hood

Press ratchet lever 4 and turn extraction hood 505 anticlockwise.

4.3 Clamping of milling cutters (see Fig. 1 and 2)

The machine can be placed onto the motor cover to make replacing the milling cutter easier. The router is equipped with a precision collet Ø 8 mm (Ø 1/2" on model GB). It is possible to fasten milling cutters with corresponding shaft diameter in this collet. The adapter that is included in the supply facilitates the fastening of milling cutters with female thread M 12 x 1.

Clamping



Never tighten the cap nut without fitted tool as this may damage the collet.

- Push the clean milling cutter shaft A as far as possible into the open collet 510.
- Push the index bolt 31 to lock the cutter spindle 27.
- Tighten cap nut 37 by first turning it clockwise by hand and afterwards by means of a flat spanner of wrench size 22. It is not necessary to regrip with the flat spanner. Simply turn back the cutter spindle by 90° after you have unscrewed the index bolt and relock it with the index bolt.

Unclamping

- Reverse order as for clamping.

4.4 Collet change (see Fig. 3)

Turn cap nut 37 from cutter spindle 27 to replace the collet. The collet 510 hangs in the cap nut. You can release the collet from the cap nut by forceful tilting and pulling. Forceful pushing causes the collet to engage audibly in the cap nut.



Before installing it, clean the cutter spindle cone and the collet. Only mount collets in the cutter spindle that have engaged correctly in the cap nut.

4.5 Assembly and disassembly of the adapter for router bit with female thread (see Fig. 1 and 3)

Assembly

- Instead of collet 510, insert the adapter into cutter spindle cone 27 and tighten it with cap nut 37. The milling cutters can be fastened on the protruding end of the thread.

Disassembly

- Lock the cutter spindle by pressing index bolt 31.
- Slightly unscrew the milling cutter at the adapter.
- Keep the index bolt depressed and unscrew the tensioning nut with a flat spanner or wrench size 22.
- Manually screw the cap nut onto the milling cutter collar.
- Twist the cap nut and the milling cutter against each other using the flat spanner. By doing so, you will pull the adapter from the cone.
- You can screw off the parts by hand.

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".

5.1.1 Switching on and off (see Fig. 1)



Danger

Only switch on the machine if the milling cutter has no contact with the workpiece.

- Switching on:** Press rocker switch 42 at the end designated with I.
- Switching off:** Press rocker switch 42 at the end designated with O. The electronic brake causes the machine to come to a standstill very quickly.

5.2 Speed adjustment (see Fig. 1)

Which speed has to be set for which milling cutter-Ø and material can be gathered from the depicted diagram and from the front of the machine.

		Plastic			
		n x1000/min			
		Tree	Wood	Wool	Plastic
ø10-20	18-22	18-22	20-22	14-22	
ø20-30	14-18	16-20	18-20	12-20	
ø30-40	12-16	14-18	12-18	10-18	
ø40-50	10-14	10-14	10-14	10-16	

The electronic system keeps the set speed constant.

In addition, the electronic system adjusts the motor down in case of overload, i.e. the tool will stop. The machine must then be switched off. Switch on the machine again afterwards and continue to work with reduced feed speed.



Danger

Do not work with the router if the electronic system is defective, as this may lead to excessive speeds.

5.3 Milling depth adjustment (see Fig. 1)

5.3.1 Clamping device

By turning handle 25 clockwise you can lock the machine at any milling depth.

5.3.2 Return stroke limit

To avoid unnecessary empty strokes, you can reduce the stroke to the required length by adjusting knurling nut 28.

5.3.3 Revolving depth control turret

The revolving depth control turret 12 can be used to set three different milling depths. The longest of the stop screws 85 is set to the smallest milling depth while the shortest stop screw 83b is set to the largest milling depth.

5.3.4 Adjustment of milling depth according to scale

- Clamp the milling cutter and place the machine onto the workpiece.
- Unscrew the clamping and contact the workpiece surface with the milling cutter. Then clamp the machine again.
- Adjust depth stop 45 up to the stop screw.
- Set the top edge of the slidable needle 19 on the depth stop to the zero point of scale 43.
- Set the depth stop to the desired milling depth and clamp it with the clamping arm 68c.
- The empty stroke can be reduced to approx. 10 mm with knurling nut 28.
- If you release the clamping at the machine, the reverse stroke will be carried out automatically.

5.3.5 Fine adjustment of milling depth



A fine adjustment of the milling depth can be achieved by turning adjusting nut 30. One turn of the adjusting nut causes a milling depth adjustment of 1 mm.

5.4 Work instructions

5.4.1 Plunge milling

While milling ensure that the workpiece is secured, that the router with base plate 3 and / or the limit stops rests as even as possible and with an as large as possible surface against the workpiece and that large depths are milled in stages. Once you have set the milling cutter speed, firmly hold onto the machine with both hands and switch on the machine. Plunge into the material up to the limit stop with an even feed and then lock the machine. Only mill in counter direction.

5.4.2 Milling with parallel stop (see Fig. 1)

Parallel stop 13 is used to accurately guide the machine along a straight workpiece edge.

Conversion:

- Push the guide rods 36 laterally into the prism-shaped openings of the base plate.
- Roughly set the parallel stop to the desired distance to the milling cutter and tighten the wing screws 68a.
- Knurling screw 34 permits you to accurately set the distance to the milling cutter. Then tighten the wing screws 68b.

Adjust the sliding pads on the parallel stop

The sliding pads 15 can be pushed together to adjust the stop surface during processing of edge ends. To do so, unscrew cylinder-head screws 83a, 86 and set the sliding pads close to the milling cutter or push them together completely.

5.4.3 Milling according to template

With the template guide 507 (see Fig. 4) it is possible to mill shapes using self-made templates. Screw the template guide onto the underside of base plate 3 using the countersunk screws 77. The template must be wide enough to allow a secure guiding of the machine.

5.4.4 Milling with parallel stop and roller edge guide (see Fig. 5)

(also available as special accessories)

The roller edge guide B can be fastened on parallel stop 13 at the end of the screws using hexagon nuts C. With this guide it is possible to carry out milling work parallel to edges of any shape.

6 Service and maintenance



Danger

Pull the power plug during 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.

7 Troubleshooting



Danger

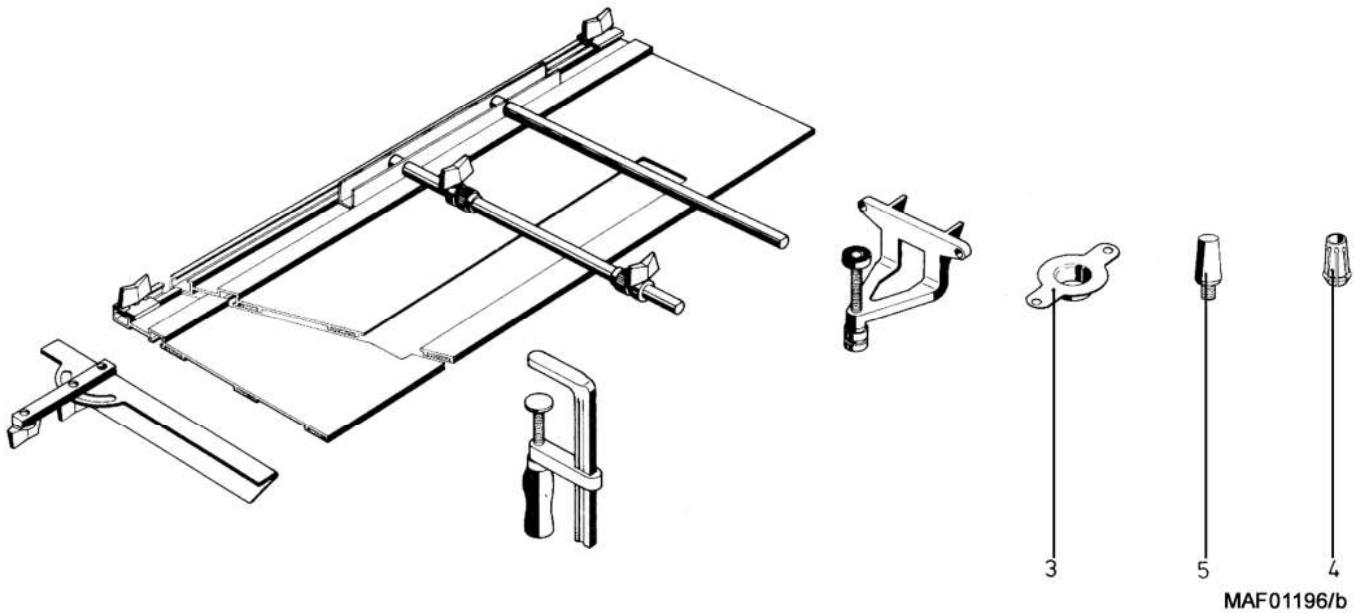
Determining the causes for existing defects and eliminating these always requires increased attention and caution. Pull the mains plug beforehand!

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	Elimination
Machine cannot be switched on	No mains voltage	Check power supply
	Carbon brushes worn	Take the machine to a MAFELL customer service shop
Machine switches off automatically during idling or stops during milling	Mains failure	Check mains-side pre-fuse
	Machine overloaded	Switch machine off and on again Reduce feed speed
Speed decreases during milling	Excessive chip removal	Reduce chip removal
	Excessive feed	Reduce feed
	Blunt milling cutter	Grind or replace milling cutter
Excessive speed, soft start missing or speed control no longer possible	Defective electronic system	Take the machine to a MAFELL customer service shop
Unclean milling pattern	Blunt milling cutter	Grind or replace milling cutter
	Uneven feed	Mill with constant pressure and reduced infeed
Burn marks on the milled surfaces	Milling cutter that is unsuitable for the operating sequence or blunt	Grind or replace milling cutter
Undervoltage shutdown	No mains voltage (power interruption)	Switch machine off and on again
After it has been briefly switched off and on, machine does not start again	Caused by electronic system (braking time)	Switch machine off and on again after approx. 5 seconds

8 Optional accessories

3	- Template guide Ø 20 mm	Order No. 200693
3	- Template guide Ø 27 mm	Order No. 038988
3	- Template guide Ø 40 mm	Order No. 038989
4	- Collet Ø 6 mm	Order No. 093257
4	- Collet Ø 8 mm	Order No. 093256
4	- Collet Ø 10 mm	Order No. 093255
4	- Collet Ø 12 mm	Order No. 093254
4	- Collet Ø 1/4"	Order No. 093279
4	- Collet Ø 1/2"	Order No. 093276
5	- Adapter for router bit M 10	Order No. 039363
	- Adapter for router bit M 12 x 1	Order No. 201575
	- Template guide RD 30	Order No. 038971
	- Stair string milling cutter	Order No. 200500
	LO-FA Milling Adapter	Order No. 207200
	Guide rail F 80	Order No. 204380
	Guide rail F 110	Order No. 204381
	Guide rail F 160	Order No. 204365
	Guide rail F 210	Order No. 204382
	Guide rail F 310	Order No. 204383
	Single tension clamp	Order No. 207776
	Guide rail F 80-LR	Order No. 207600
	Guide rail F 160-LR	Order No. 207601
	Connecting piece packed F-VS	Order No. 204363
	Adhesive profile packed F-HP 6.8M	Order No. 204376
	Splinter guard packed F-SS 3.4M	Order No. 204375
	Tension clamp packed F-SZ 180MM (2 pcs)	Order No. 207770
	End caps packed F-EK	Order No. 205400
	Recoil stop packed F-RS	Order No. 202867
	Rail bag 160	Order No. 204626
	Rail bag kit F160/160 consisting of: 2 x F160 + connecting piece + 2 screw clamps + rail bag	Order No. 204805
	Rail bag kit F80/160 with sliding bevel segment consisting of: F80 + F160 + connecting piece + sliding bevel + 2 screw clamps + rail bag	Order No. 204749



9 Exploded drawing and spare parts list

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

GARANTIE

Gegen Vorlage der Garantieunterlage (Original-Kaufbeleg) werden innerhalb der jeweils gültigen Gewährleistungsregelungen kostenlos alle Reparaturen ausgeführt, die nach unseren Feststellungen wegen Material-, Bearbeitungs- und Montagefehlern erforderlich sind. Verbrauchs- und Verschleißteile sind hiervon ausgeschlossen. Hierzu muss die Maschine bzw. das Gerät frachtfrei an das Werk oder an eine MAFELL-Kundendienststelle geschickt werden. Vermeiden Sie, die Reparatur selbst zu versuchen, da dadurch der Garantieanspruch erlischt. Für Schäden, die durch unsachgemäße Behandlung oder durch normalen Verschleiß entstanden sind, wird keine Haftung übernommen.

WARRANTY

Upon presentation of the warranty document (original invoice), we will carry out all repairs free of charge in accordance with the applicable warranty provisions, processing and mounting faults free of charge on presentation of this properly filled-in Guarantee Certificate and your original receipt. This is not valid for consumables and wearing parts. For this purpose, the machine or the appliance is to be forwarded freight paid to our plant or to an authorized MAFELL repair service. Refrain from trying to carry out the repairs yourself as otherwise your warranty claim will become extinct. We do not accept any liability for any damage resulting from improper handling or normal wear.

GARANTIE

Sur présentation de cette carte de garantie, duement remplie par votre fournisseur et accompagnée de l'original de la pièce justifiant l'achat, nous effectuerons gratuitement toutes les réparations faisant l'objet d'un recours en garantie pendant la période indiquée, de la construction ou de la fabrication, à l'exclusion des pièces de consommation et d'usure. La machine ou l'appareil doit être pour cela expédié franco de port à notre usine ou à un atelier de service après-vente MAFELL. Évitez de procéder vous-mêmes à toute réparation, ceci périrait tout recours en garantie par la suite. Nous déclinons toute responsabilité en cas de dommages découlant d'une manipulation non conforme ou d'une usure normale.

GARANZIA

Dietro presentazione del presente certificato di garanzia, regolarmente compilato, insieme alla ricevuta originale, vengono e seguite gratuitamente tutte le riparazioni necessarie riscontrate dai nostri accertamenti, entro il periodo di garanzia vigente, dovuti a difetti di materiale, di lavorazione o di montaggio. Da ciò sono esclusi pezzi di consumo e pezzi soggetti ad usura. A questo scopo la macchina ovvero l'apparecchio (elettrico) va spedito franco di porto allo stabilimento oppure a un punto di assistenza clienti della MAFELL. Evitate di tentare Voi stessi di effettuare la riparazione, altrimenti il diritto di garanzia viene revocato. Non ci assumiamo alcuna responsabilità per danni derivanti da trattamento non conforme o da normale usura.

GARANTIE

Tegen vertoon van dit reglementair ingevuld garantie-bewijs, samen met het originele koopbewijs worden binnen de telkens geldige garantieregelingen gratis alle reparaties uitgevoerd, die volgens onzeconstateringen op grond van materiaal-, bewerkings- en montagefouten vereist zijn. Verbruik- en slijtagedelen zijn hiervan uitgesloten. Hiervoor moet de machine resp. het apparaat vrachtvrij naar de fabriek of naar een MAFELL-klantenservice worden gestuurd. Vermijd u het de reparatie zelf uit te voeren, omdat daardoor de garantieclaim vervalt. Voor schade die door ondeskundige behandeling of door normale slijtage is ontstaan, wordt geen aansprakelijkheid aanvaardt.

GARANTÍA

Presentando este documento de garantía (recibo original de compra), todas las reparaciones necesarias por defectos de material, errores de mecanizado o faltas de montaje en el marco de las reglamentaciones de la garantía concedida por parte del fabricante se efectuarán libre de gastos. Se excluyen sin embargo piezas fungibles o de desgaste. Para ello, entregue a porte pagado la máquina o el equipo a las fábricas del fabricante o a uno de los puntos de asistencia técnica de MAFELL. No realice nunca las tareas de reparación a cuenta propia. De lo contrario, caducará el derecho a garantía. No se asumirá responsabilidad alguna por los daños que se desprendan del uso inapropiado ni por el desgaste en el uso diario.

TAKUU

Tätä takuuukuitta (alkuperäinen ostokuitti) vastaan suoritetaan voimassa olevan takuuajan sisällä maksutta kaikki korjaukset, jotka olemme todenneet tarpeellisiksi materiaali-, valmistus- ja asennusvirheistä johtuen. Käyttö- ja kuluvat osat ei kuulu takuupiiriin. Korjausta varten kone tai laite on lähetettävä asianmukaisesti postitettuna joko tehtaalle tai johonkin MAFELL-asiakaspalveluun. Älä yritä korjata konetta itse, koska siinä tapauksessa takuu sammuu. Takuu ei vastaa vahingoista, jotka johtuvat asiaankuulumattomasta käytöstä tai normaalista kulumisesta.

GARANTI

Mot uppvisande av kvitto utförs kostnadsfritt, under giltiga garantitidaganden, alla reparationer som efter fastställande från vår sida kan härledas till material-, bearbetnings- eller monteringsfel. Förbruknings- och förslitningsdelar undantagna. Maskinen eller verktyget måste skickas fraktfritt till fabrik eller till MAFELLkundservice. Undvik att själv försöka utföra reparationen då detta leder till att garantianspråk förfaller. För skador som uppkommer på grund av felaktig behandling eller normalt slitage övertas inget ansvar.

GARANTI

Mod fremlæggelse af garantibeviset (original kvittering) ydes der gratis reparation af materiale-, fremstillings- og monteringsfejl, i henhold til de gældende garantibetingelser. Forbrugs- og sliddele udelukkes fra denne garanti. Hertil sendes maskinen/apparatet fragtfrit til producenten eller et Mafell-kundeserviceværksted. Hvis kunden selv forsøger at reparere maskinen, borfalder garantien. Der overtages intet ansvar for beskadigelser, der opstår pga. uhensigtsmæssig brug eller normal slitage.



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