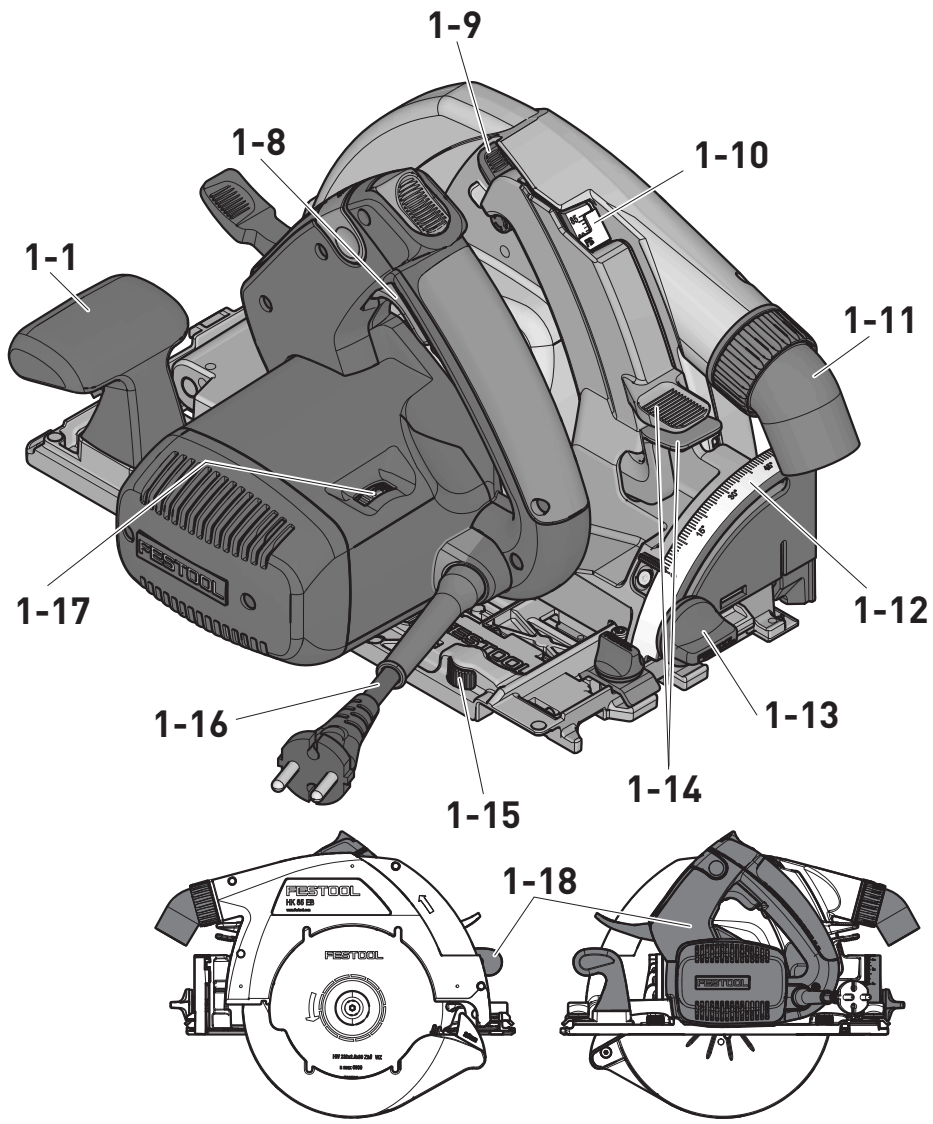
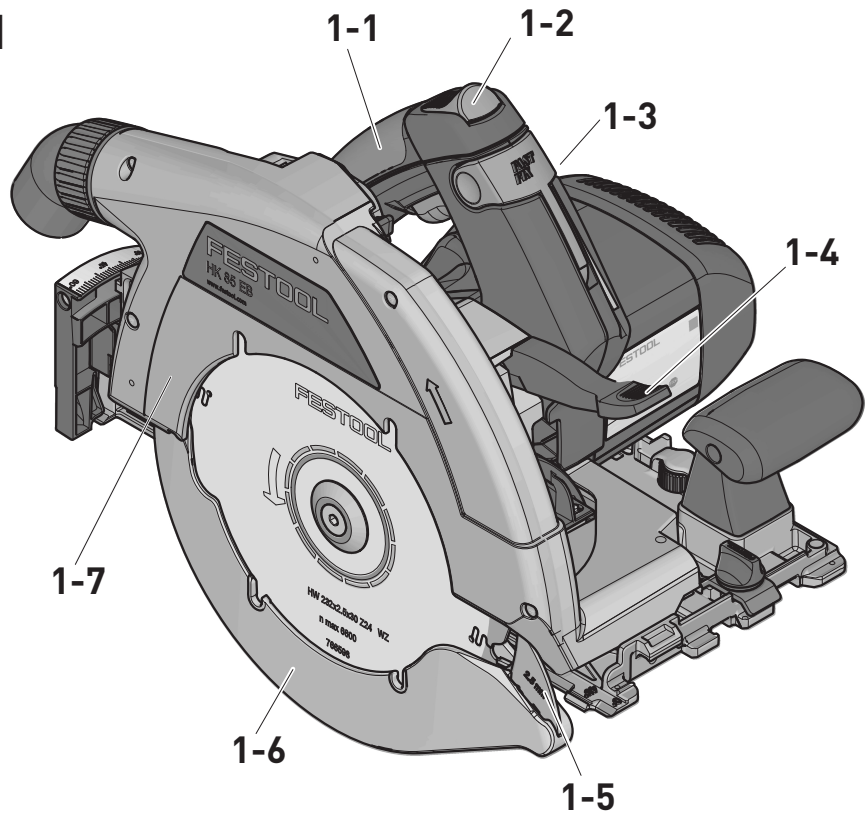


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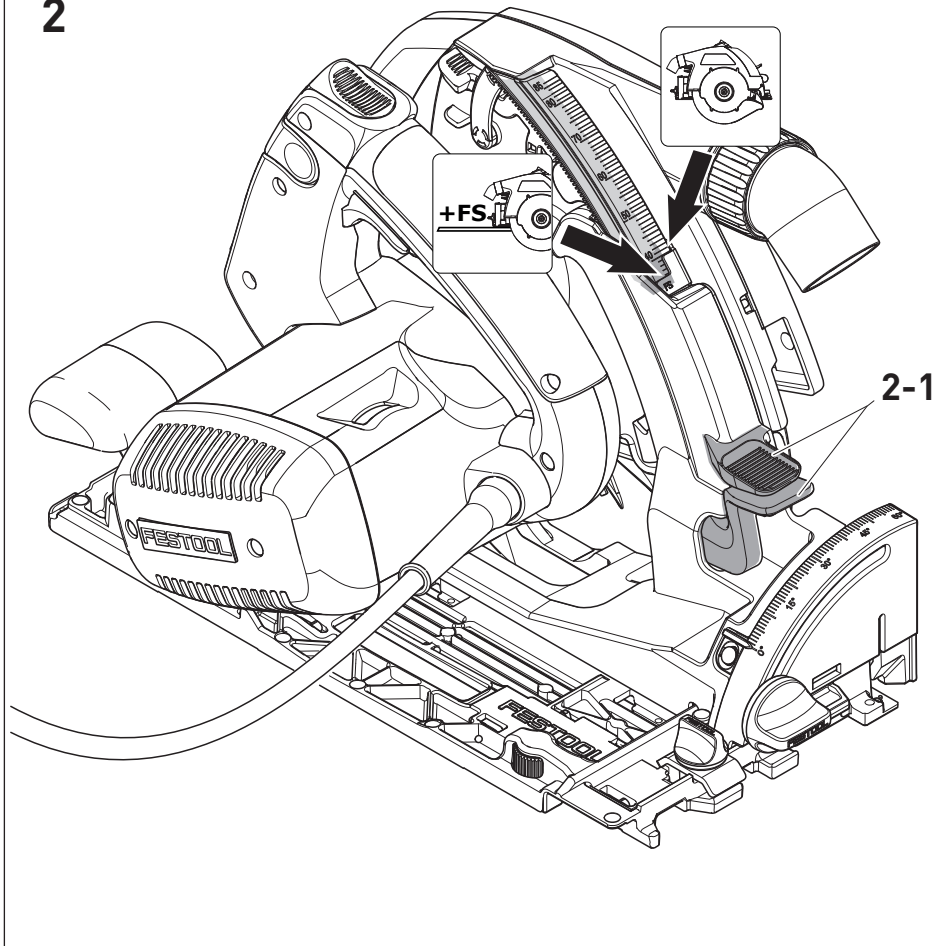
HK 85 EB



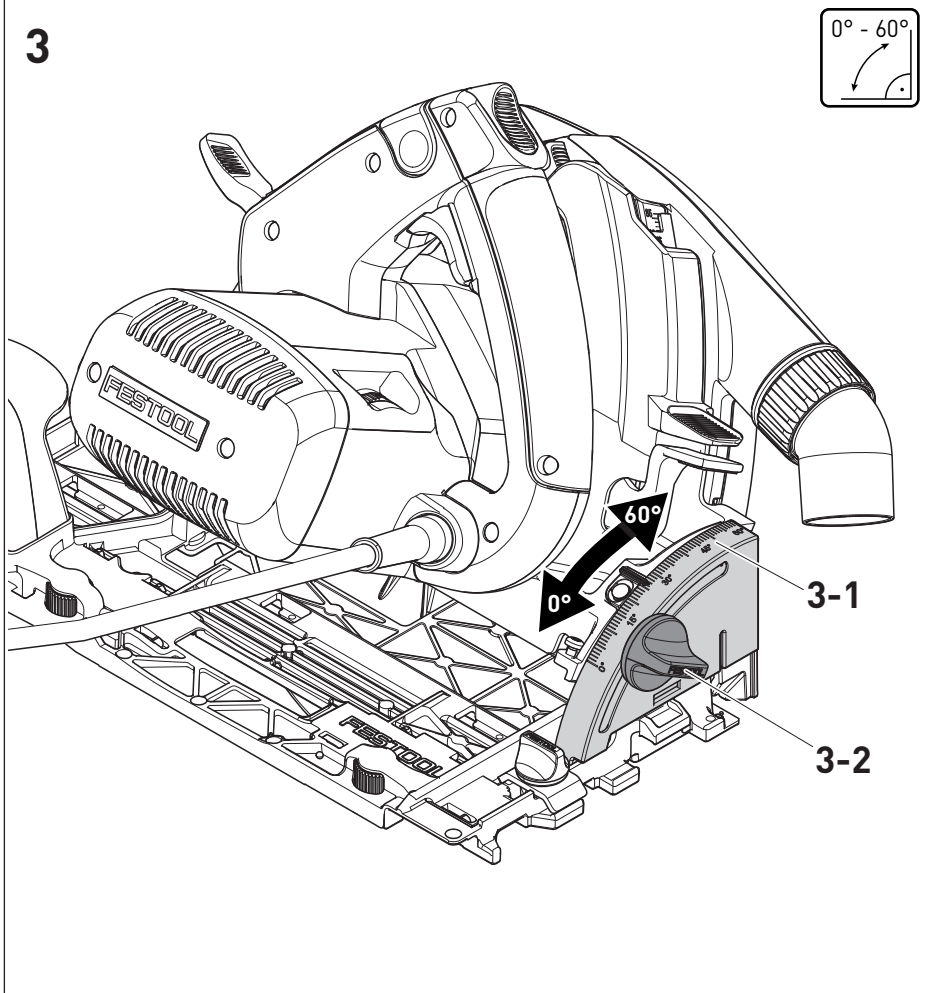
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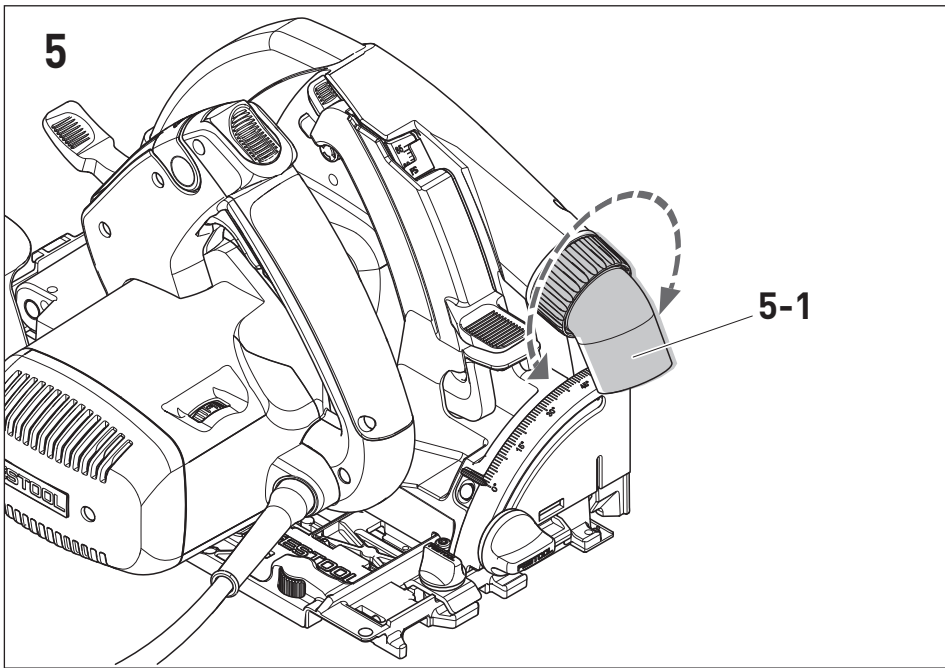
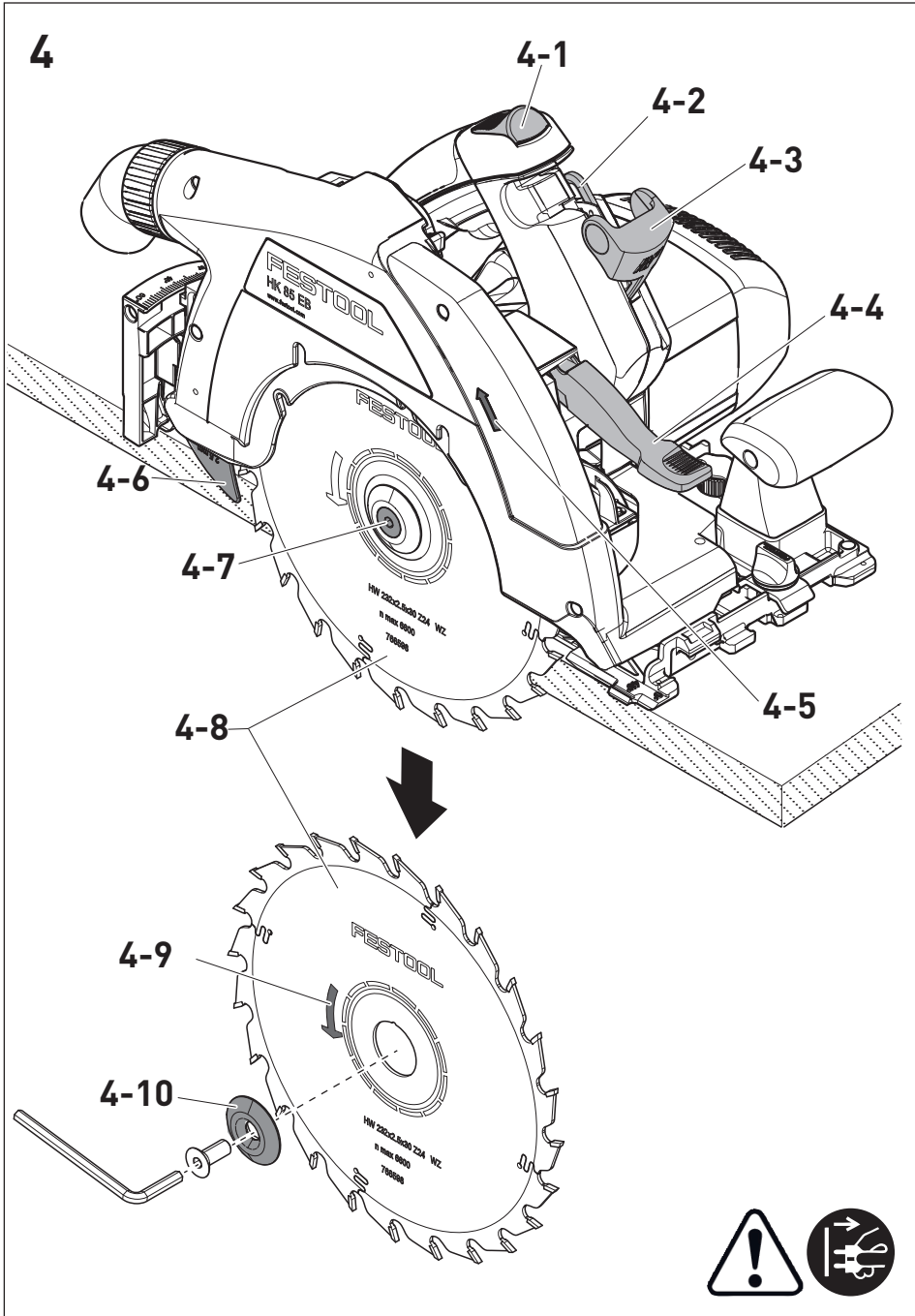


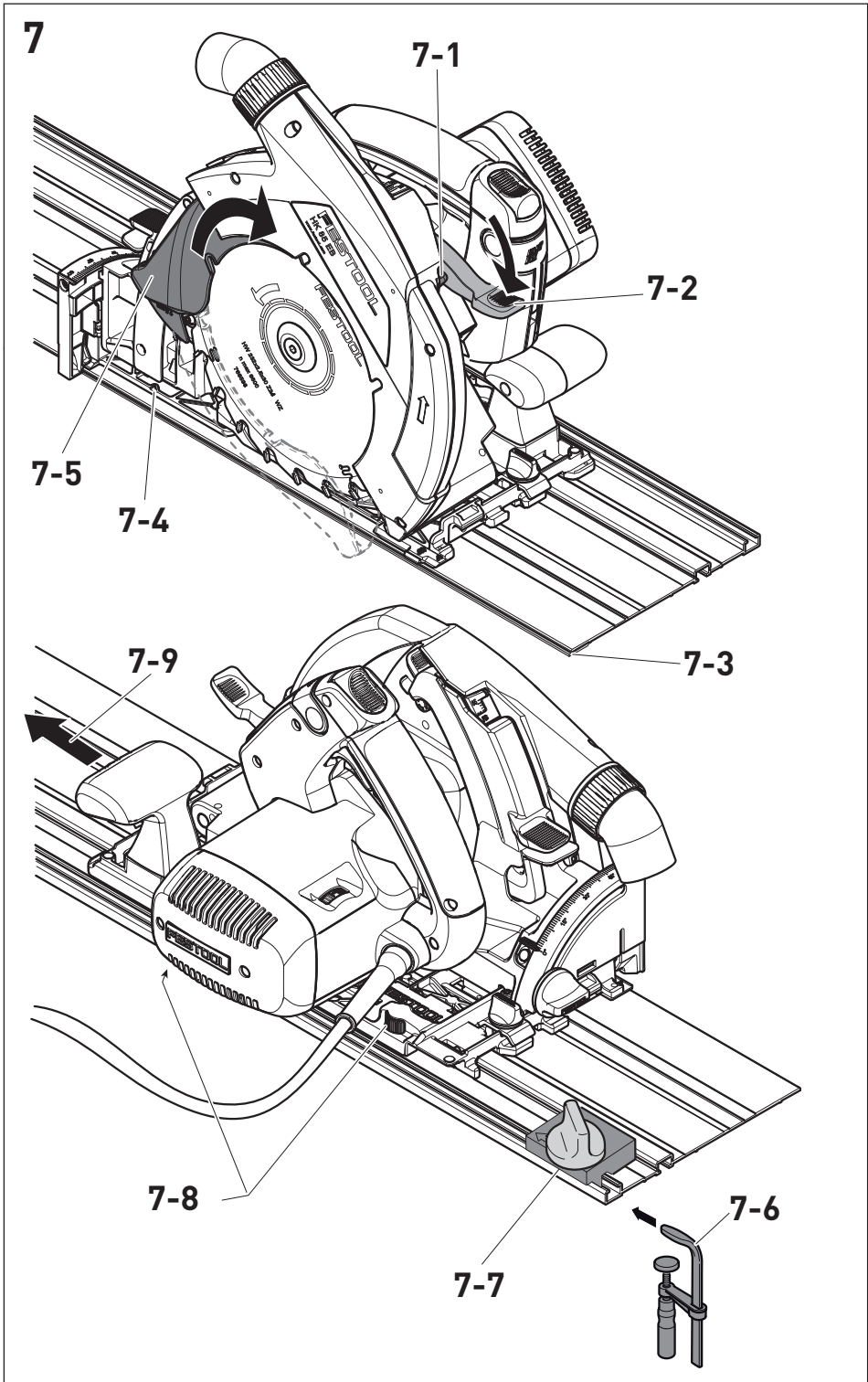
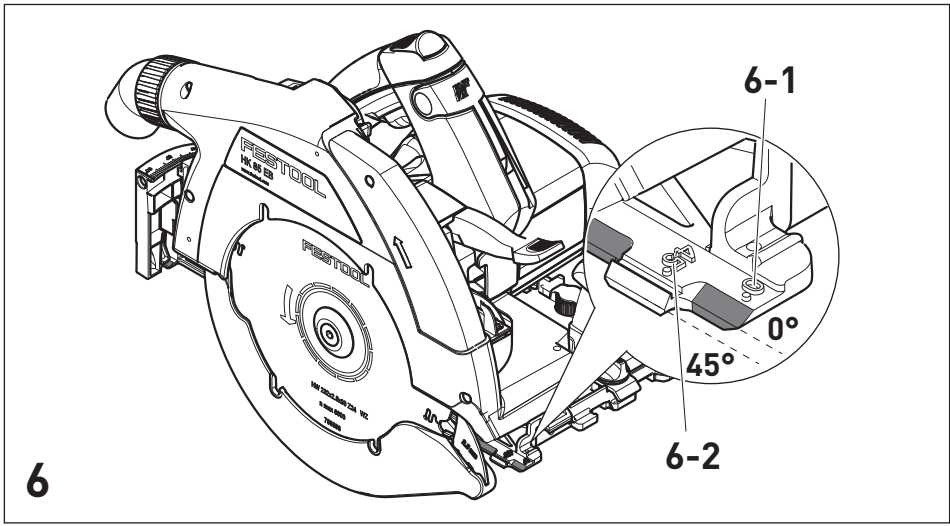
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3







Handkreissäge Circular saw Scie circulaire	Seriennummer * Serial number * N° de série * (T-Nr.)
HK 85 EB mit Nuteinrichtung/with groove unit/avec dispositif de rainurage VN-HK 85 130x16-25	201073, 768000, 10012001 10013170

de EG-Konformitätserklärung. Wir erklären in alleiniger Verantwortung, dass dieses Produkt allen einschlägigen Bestimmungen der folgenden Richtlinien einschließlich ihrer Änderungen entspricht und mit den folgenden Normen übereinstimmt:

en EC-Declaration of Conformity. We declare under our sole responsibility that this product is in conformity with all relevant provisions of the following directives including their amendments and complies with the following standards:

fr CE-Déclaration de conformité communautaire. Nous déclarons sous notre propre responsabilité que ce produit est conforme aux normes ou documents de normalisation suivants:

es CE-Declaración de conformidad. Declaramos bajo nuestra exclusiva responsabilidad que este producto corresponde a las siguientes normas o documentos normalizados:

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fi EY-standardinmukaisuusvakuutus. Vakuutamme yksinvastuullisina, etta tuote on seuraavien standardien ja normatiivisten ohjeiden mukainen:

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cs ES prohlášení o shodě. Prohlašujeme s veškerou odpovědností, že tento výrobek je ve shodě s následujícími normami nebo normativními dokumenty:

pl Deklaracja o zgodności z normami UE. Niniejszym oświadczamy na własną odpowiedzialność, że produkt ten spełnia następujące normy lub dokumenty normatywne:

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

EN 62841-1: 2015 + AC:2015,
EN 62841-2-5: 2014
EN 60745-1: 2009 + A11:2010
EN 60745-2-19: 2009 + A1:2010
EN 55014-1: 2017, EN 55014-2: 2015
EN 61000-3-2: 2014, EN 61000-3-3: 2013
EN 50581: 2012

CE Festool GmbH
Wertstr. 20, D-73240 Wendlingen
GERMANY

Wendlingen, 2019-07-08

ppa. [Signature]

Markus Stark
Head of Product Development










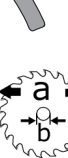





i. A. Q. [Signature]


Ralf Brandt
Head of Product Conformity
* im definierten Seriennummer-Bereich (S-Nr.) von 40000000 - 49999999
in the specified serial number range (S-Nr.) from 40000000 - 49999999
dans la plage de numéro de série (S-Nr.) de 40000000 - 49999999


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1 Symbols

-  Warning of general danger
-  Warning of electric shock
-  Read the operating instructions and safety instructions.
-  Wear ear protection.
-  Wear protective gloves when changing tools and working with raw materials.
-  Wear a dust mask.
-  Wear protective goggles.
-  Do not dispose of it with domestic waste.
-  Direction of rotation of saw and the saw blade
-  Saw blade dimensions
a = diameter
b ... Locating bore
-  Safety class II
-  Danger area! Keep hands away!
-  Pull out the mains plug
-  Risk of pinching fingers and hands!
-  Electro-dynamic run-down brake

 CE marking: Confirms the conformity of the power tool with the European Community directives.


 UKCA marking: The United Kingdom Conformity Assessed symbol is a marking for products being placed on the market in the United Kingdom. It is a manufacturers indication that the product is in conformance with the relevant regulations in the UK.

 Tip or advice

 Handling instruction

2 Safety warnings

2.1 General power tool safety warnings


 **WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

2.2 Safety instructions for specific circular saws

Cutting procedures

-  **DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.
- **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- **Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.** It is important to support the work properly to minimise body exposure, blade binding, or loss of control.
- **Hold the power tool by the insulated handle surfaces if you intend to perform work that entails a risk of cutting into hidden**

- **power cables or the tool's own power cable.** Contact with live cables transfers an electric current to metal components on the electric power tool and causes electric shocks.
- **When ripping, always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Kickback causes and related warnings

- kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** Investigate and take cor-

rective actions to eliminate the cause of blade binding.

- **When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material.** If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.
- **Support large panels to minimise the risk of blade pinching and kickback.** Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- **Blade depth and bevel adjusting locking levers must be tight and secure before making the cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- **Use extra caution when sawing into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

Lower guard function

- **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- **The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.

- **Always observe that the lower guard is covering the blade before placing the saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

Function of the guide wedge [1-5]

- **Use the correct saw blade for the guide wedge, where possible. The function of the guide wedge is restricted if using saw blades with a thicker blade core.** To ensure that the guide wedge functions properly, make sure the blade core of the saw blade is thinner than the guide wedge and that the tooth width is greater than the thickness of the guide wedge. Expect increased risk of kickback when using a thicker saw blade.
- **Do not operate the saw if the guide wedge is bent.** Even the slightest problem can cause the guard to close more slowly.
- **Never work without a guide wedge.** The guide wedge ensures that the protective lid opens safely and smoothly. It also reduces the risk of a kickback and clamping saw blade.

2.3 Safety instructions for the pre-assembled saw blade

Usage

- The maximum speed specified on the saw blade must not be exceeded and the speed range must be adhered to.
- The pre-installed saw blade is only designed for use in circular saws.
- Proceed with extreme care when unpacking, packing and handling the tool (e.g. installing it in the machine). There is a risk of injury from extremely sharp cutting edges!
- When handling the tool, wearing safety gloves provides a more secure hold of the tool and further reduces the risk of injury.
- Circular saw blades with cracked bodies must be replaced. Repair is not permitted.
- Circular saw blades with a combination design (soldered saw teeth) with saw tooth thickness smaller than 1 mm must no longer be used.
- Do not use tools with visible cracks or blunt or damaged cutting edges.

Installation and mounting

- Tools must be clamped in such a way that they cannot come loose during operation.
- When assembling the tools, it must be ensured that the clamping takes place on the tool hub or the clamping surface of the tool, and that the cutting edges do not come into contact with one another or the fixed clamps.
- Retaining screws and nuts must be tightened using suitable keys, etc. and with the torque specified by the manufacturer.
- Do not lengthen the key or tighten by hitting with a hammer.
- The clamping surfaces must be cleaned to remove contamination, grease, oil and water.
- Clamping screws must be tightened according to the manufacturer's instructions.
- Only securely installed rings, e.g. rings that have been pressed in or those that are held in position by an adhesive bond, may be used to adjust the hole diameter of circular saw blades to the spindle diameter of the machine. The use of loose rings is not permitted.

Service and maintenance

- Repairs and sanding work may only be carried out by Festool customer service workshops or experts.
- The tool design must not be changed.
- Deresinify and clean the tool regularly (cleaning agent with pH between 4.5 and 8).
- Blunt edges can be resharpened on the clamping surface to a minimum cutting edge thickness of 1 mm.
- Only transport the tool in suitable packaging – risk of injury!

2.4 Further safety instructions


- **This power tool cannot be installed in a work bench.** The power tool may become unsafe and cause serious accidents if installed in benches from other manufacturers or self-manufactured work benches.
- **Never place your hands into the chip ejector.** You may injure yourself on rotating parts.
- **Use appropriate detection devices to look for any hidden supply lines or consult your local utility company.** If the insertion tool makes contact with live cables, it can result in fire and electric shock. Damage to a gas

pipe can lead to an explosion. Penetration of a water pipe can result in damage to property.

- **Wait until the power tool has come to a complete halt before placing it down.** The insertion tool can get caught and lead to a loss of control of the power tool.
- Do not use the machine for overhead work.
- **Harmful/toxic dust may be produced during your work (e.g. paint containing lead, certain types of wood or metals).** Contact with or inhalation of this dust may pose a risk for the operating personnel or persons in the vicinity. Comply with the safety regulations that apply in your country.



Wear suitable personal protective equipment: Ear protection, protective goggles, dust mask for work that generates dust, protective gloves for working with rough materials and for changing tools.

-  Wear a P2 respiratory mask to protect your health. In enclosed spaces, ensure that there is sufficient ventilation and connect a mobile dust extractor.
- Check whether there are any signs of damage to the housing components, such as cracks or stress whitening. Have any damaged components repaired before using the power tool.
- **Only for AS/NZS:** The tool shall always be supplied via residual current device with a rated residual current of 30 mA or less.

2.5 Residual risks

In spite of compliance with all relevant design regulations, hazards while operating the machine still occur e.g.:

- Touching the saw blade in the area of the front opening below the saw table,
- Touching the parts of the saw blade that protrude below the saw table while cutting,
- Touching rotating parts from left and right sides: saw blade, clamping flange, flange screw.,
- Kickback of machine due to jamming in the workpiece,
- Touching live parts when the casing is opened and the mains plug is in the socket,
- the flying off of parts,
- the flying off of machine parts from a damaged machine,

- noise emission,
- dust emission.

2.6 Aluminium processing



When sawing aluminium, the following measures must be taken for safety reasons:

- Install an upstream residual-current circuit breaker (FIG, PRCD).
- Connect the machine to a suitable dust extractor.
- Regularly remove dust deposits from the motor housing.
- Use an aluminium saw blade.
- Close the viewing window/chipguard.



Wear protective goggles.

- When sawing panels, they must be lubricated with paraffin but thin-walled profiles (up to 3 mm) can be sawed without lubrication.

2.7 Emission levels

The levels determined in accordance with EN 62841 are typically:

Sound pressure level	$L_{PA} = 92 \text{ dB(A)}$
Sound power level	$L_{WA} = 103 \text{ dB(A)}$
Uncertainty	$K = 3 \text{ dB}$



CAUTION

Noise generated when working

Risk of damage to hearing

- Use ear protection.

Vibration emission level a_h (vector sum for three directions) and uncertainty K measured in accordance with EN 62841:

Sawing wood	$a_h = 1.5 \text{ m/s}^2$
	$K = 1,5 \text{ m/s}^2$
Sawing metal	$a_h = 1.7 \text{ m/s}^2$
	$K = 1,5 \text{ m/s}^2$

The specified emission levels (vibration, noise)

- are used to compare machines.
- They are also used for making preliminary estimates regarding vibration and noise load during operation.
- They represent the primary applications of the power tool.

**CAUTION**

The emission values may deviate from the specified values. This is dependent on how the tool is used and the type of workpiece being machined.

- ▶ The actual load during the entire operating cycle must be evaluated.
- ▶ Depending on the actual load, suitable protective measures must be defined in order to protect the operator.

3 Intended use

Circular saw designed for sawing

- wooden materials and wood-based materials,
- plaster and cement compound fibres,
- plastic materials,
- aluminium (only with a special saw blade for aluminium offered by Festool)

The portable circular saw can be transformed into a biscuit joiner using a groove unit conversion kit supplied by Festool.

This power tool may only be used by experts or instructed persons.



The user is liable for improper or non-intended use.

3.1 Saw blades

Only use saw blades with the following dimensions:

- Saw blades in accordance with EN 847-1
- Saw blade diameter 230 mm
- Cutting width 2.5 mm
- Location hole 30 mm
- Recommended blade thickness 1.8 mm, max. 2.0 mm
- Suitable for speeds of up to 6600 rpm

Do not use cutting or abrasive wheels.

Do not use a diamond saw blade for sawing cement-bonded fibreboards.

Only saw materials for which the saw blade in question has been designed.

4 Technical data

Circular saw	HK 85 EB
Power	1900 W
Speed (no-load)	3500 rpm
Inclination	0 - 60°
Cutting depth at 0°	0 - 86 mm

Circular saw	HK 85 EB
Max. cutting depth at 45°	62 mm
Max. cutting depth at 60°	47 mm
Saw blade dimensions	230 x 2.5 x 30 mm
Weight (without power cable)	6.8 kg

5 Parts of the device

- [1-1]** Handles
- [1-2]** Safety lock
- [1-3]** Lever for changing the tool
- [1-4]** Retractor lever for pendulum guard
- [1-5]** Guide wedge
- [1-6]** Pendulum guard
- [1-7]** Protective lid
- [1-8]** On/off switch
- [1-9]** Lever for plunge function
- [1-10]** Split scale for the cutting depth stop (with/without a guide rail)
- [1-11]** Rotating extractor connector
- [1-12]** Angle scale
- [1-13]** Knob for angle setting
- [1-14]** Cutting depth adjustment
- [1-15]** Adjustable jaws
- [1-16]** Mains power cable
- [1-17]** Speed control
- [1-18]** Insulated gripping surfaces (grey shaded area)

The illustrations specified are located at the beginning and end of the operating instructions.

6 Operation**WARNING**

Unauthorised voltage or frequency!

Risk of accidents

- ▶ Observe the specifications on the machine's name plate.
- ▶ Observe country-specific regulations.



Always switch the machine off before connecting or disconnecting the mains power cable!

6.1 Switch on/off

- ▶ Slide switch-on lock [1-2] upwards.
- ▶ Press the ON/OFF switch [1-8].
Press = ON
Release = OFF

7 Settings



WARNING

Risk of injury, electric shock

- ▶ Always disconnect the mains plug from the socket before performing any work on the machine.

7.1 Electronics

Smooth start-up

The electronically controlled smooth start-up function ensures that the power tool starts up smoothly.

Speed control

You can continuously adjust the speed within the speed range using the adjusting wheel [1-17] (see "Technical data"). This enables you to optimise the cutting speed to suit each surface.

Speed range per material

Solid wood (hard, soft)	6
Chipboard and hardboard	3-6
Laminated wood, blockboard, veneered and laminated panels	6
Laminate, mineral materials	4-6
Plaster- and cement-bonded chipboard and fibreboard	1-3
Aluminium panels and profiles up to 15 mm	4-6
Plastics, fibre-reinforced plastics, paper and fabric	3-5
Acrylic glass	4-5

Current limiting

Current limiting prevents excessive current consumption under extreme overload, which can lead to a decrease in the motor speed. The motor immediately restarts after the load is removed.

Brake

The HK 85 EB comes with an electronic brake. The saw blade is stopped electronically within

approximately two seconds of switching off the machine.

Temperature cut-out

The power supply is restricted and the speed reduced if the motor exceeds a certain temperature. The power tool continues operating at reduced power to allow the ventilator to cool the motor quickly. The power tool starts up again automatically once the motor has cooled sufficiently.

7.2 Adjusting the cutting depth

The cutting depth can be set to between 0 and 86 mm.

- ▶ Press cutting depth adjustment [2-1].
- ▶ Pull up or push down saw at main handle.



Cutting depth without guide rail/track rail
max. 86 mm



Cutting depth with guide rail/track rail
max. 82 mm

7.3 Adjusting the cutting angle

- ⓘ The saw table must be on an even surface when adjusting the cutting angle.

Between 0° and 60°:

- ▶ Open knob [3-2].
- ▶ Swivel sawing unit to the desired cutting angle [3-1].
- ▶ Close knob [3-2].

- ⓘ Both positions (0° and 60°) are set at the factory and can be readjusted by the after-sales service team.

- ⓘ For angled cuts, the cutting depth is smaller than the value displayed on the cutting depth scale.

7.4 Adjust pendulum guard



Risk of injury! Sharp edges! The pendulum guard swings back quickly in the event of sudden release.

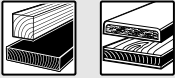

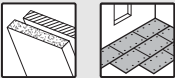
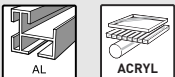
The pendulum guard [1-6] must only be opened with the retractor lever [1-4].

7.5 Selecting the saw blade

Festool saw blades are identified by a coloured ring. The colour of the ring represents the material for which the saw blade is suited.

WARNING! Risk of injury! Pendulum hood mechanism not working correctly! Diamond

saw blades must not be used to saw cement-bonded fibreboard.

Colour	Material	Symbol
Yellow	Wood	
Red	Laminate, mineral material	
Green	Plaster- and cement-bonded chipboard and fibreboard	
Blue	Aluminium, plastic	

7.6 Changing the saw blade



WARNING

Risk of injury, electric shock

- ▶ Always disconnect the mains plug from the socket before performing any work on the machine.



WARNING

Risk of injury from hot and sharp insertion tool

- ▶ Do not use any blunt or faulty insertion tools.
- ▶ Wear protective gloves when handling an insertion tool.
- ▶ Wear antistatic safety shoes when changing tools.

Removing the saw blade

- ▶ Swivel saw to 0° position before replacing the saw blade and set maximum cutting depth.
- ▶ Position saw on motor cover when replacing.
- ▶ Turn the lever [4-3] as far as the stop.
- ▶ Open the screw [4-7] using the Allen key [4-2].
- ▶ Hold the pendulum guard open [4-6] only with retractor lever [4-4].
- ▶ Remove the saw blade [4-8].

Inserting the saw blade

WARNING! Check the screws and flange for contamination and only use clean and undamaged parts.

- ▶ Insert the new saw blade.

WARNING! The direction of rotation of the saw blade [4-9] and saw [4-5] must match.

Serious injuries may occur in the event of non-compliance.

- ▶ Insert the outer flange [4-10] so that the pin engages in the recess on the inner flange.
- ▶ Release retractor lever [4-4] and allow the pendulum guard [4-6] to swivel back to its final position.
- ▶ Tighten the screw [4-7].
- ▶ Reposition the lever [4-3].



WARNING

Risk of injury

If a clamping flange is loose, the cutting edges of the saw blade may break off, and if a screw is loose, the saw blade may become detached.

- ▶ Whenever you replace a saw blade, always check that it is securely in place.

7.7 Dust extraction



WARNING

Health hazard posed by dust

- ▶ Always work with an extractor.
- ▶ Comply with national regulations.
- ▶ When sawing carcinogenic materials, always connect a suitable extraction mobile in accordance with national regulations. Do not use the chip collection bag.

Independent extraction

- ▶ Secure the connection piece of the dust collection bag at the extractor connector with a clockwise rotation.
- ▶ To empty, remove the connection piece of the dust collection bag from the extractor connector with an anti-clockwise rotation.

Festool mobile dust extractor

A Festool mobile dust extractor with a suction hose diameter of 27/32 mm or 36 mm (36 mm recommended due to the reduced risk of clogging) can be connected to the extractor connector.

The adapter on a 27 diameter suction hose is inserted into the angle adapter. The adapter on a 36 diameter suction hose is inserted over the angle adapter.

CAUTION! A static charge may build up if no antistatic suction hose is used. The user may receive an electric shock and the power tool's electronics may be damaged.

8 Working with the electric power tool



When working on the machine, observe all of the safety warnings that are listed at the start as well as the following rules:

Before starting

- Do not work with the machine if the electronics are defective, because this may lead to excessive speeds. You can tell if the electronics are defective if there is no smooth start-up or if it is not possible to regulate the speed or where smoke is present or if there is a smell of burning coming from the machine.
- **Before each use, check that the pendulum guard is working correctly using the retractor lever [1-4].** Ensure that the pendulum guard can move freely and does not come into contact with the saw blade or other parts at any cutting angle or depth. Only use this power tool when it is in perfect working order.
- Make sure that the rotary knob [1-13] is tightened before starting work.
- Position the workpiece so that it is stress-free and level.
- Make sure that the extractor hose does not snag the entire saw cut, either on the workpiece, the workpiece support or hazards on the ground.

During work

- When working, always hold the power tool **with both hands** on the handles [1-1]. This is a prerequisite for precise work and is essential for plunge-cutting. Plunge into the workpiece slowly and evenly.
- Only guide the power tool towards the workpiece when it is switched on.
- Always push the saw forwards [7-9], and **never towards yourself**.
- Adapt the infeed speed to prevent the cutters on the saw blade from overheating and prevent plastic materials from melting during cutting. The harder the material to be sawn, the lower the feed speed needs to be.

8.1 Sawing along the scribe mark

The cut indicators display the cutting sequence without a guide rail:

0° cuts: [6-1]

45° cuts: [6-2]

8.2 Cutting sections

Position the saw with the front part of the saw table on the workpiece, switch on saw and push forward in cutting direction.

8.3 Sawing cut-outs (plunge cuts)



In order to avoid kickbacks, the following instructions must always be followed when plunge cutting:

- Always position saw with the rear edge of the saw table against a fixed stop.
- When working with the guide rail, place the saw against the kickback stop FS-RSP (accessories) [7-7] clamped to the guide rail.



CAUTION

Danger of crushing

- ▶ Always keep a firm grip on the machine with your free hand when adjusting plunge cuts.
- ▶ Never position your fingers behind or below the saw blade.

Procedure

- ▶ Adjusting cutting depth, see section 7.2.
- ▶ Press lever [7-1] down.
Sawing unit swivels upwards to plunge-cut position.
- ▶ Hold retractor lever [7-2] downwards as far as stop.
Pendulum guard [7-5] opens and the saw blade is exposed.
- ▶ Position saw on workpiece and position against a stop (kickback stop).
- ▶ Switch on saw.
- ▶ Slowly press down saw to the set cutting depth until the saw engages, release retractor lever [7-2] and push forward in cutting direction [7-9].

The notch [7-4] indicates the absolute rear cutting point of the saw blade (diameter 160 mm) when using the saw at maximum cutting depth with the guide rail.

8.4 Operation with an electric generator (EG) driven by a combustion engine

- ① Festool cannot guarantee that the power tool will operate correctly in conjunction with all EGs.

The power tool can be operated with an EG as long as the following conditions are fulfilled:

- The EG's output voltage must remain in the range 230 VAC ±10% and the EG must be

equipped with an AVR (automatic voltage regulator); the power tool will not operate correctly without this regulator and may be damaged.

- The power output of the EG must be at least 2.5 times greater than the connected load of the power tool (i.e. 6 kW).
- If the power tool is operated using an EG that is not sufficiently powerful, the speed may fluctuate and the power output of the power tool may drop.

9 Service and maintenance



WARNING

Risk of injury, electric shock

- ▶ Always pull the mains plug from the socket before performing any servicing and maintenance work.
- ▶ All maintenance and repair work which requires the motor housing to be opened should always be carried out by an authorised service workshop.



Customer service and repairs must only be carried out by the manufacturer or service workshops. Find the nearest address at:
www.festool.co.uk/service



Always use original Festool spare parts. Order no. at:
www.festool.co.uk/service



Cleaning the machine regularly, especially the adjusting devices and guides, is an important safety factor.

Observe the following instructions:

- ▶ Damaged safety devices and parts, such as a faulty lever for changing tools **[1-3]**, must be properly repaired or replaced in a recognised specialist workshop, unless otherwise indicated in the operating manual.
- ▶ To ensure constant air circulation, always keep the cooling air openings in the housing clean and free of blockages.
- ▶ Use an extractor on all openings in order to remove wood chips and splinters from the power tool. Never open the protective lid **[1-7]**.
- ▶ The pendulum guard must always be able to move freely and close independently. Always keep the area around the pendulum guard clean. Clear from dust and chippings

by blowing out with compressed air or using a brush.

- ▶ When working with plaster- and cement-bonded fibreboards, clean the tool particularly thoroughly. Clean the vents of the power tool and on/off switch using dry, oil-free compressed air. Otherwise, gypsum dust deposits may build up inside the power tool's housing and on the on/off switch and harden when exposed to humidity. This may impair the switching mechanism

10 accessories

The PO numbers of the accessories and tools can be found in the Festool catalogue or on the Internet at "www.festool.com".

In addition to the accessories described, Festool also provides a comprehensive range of system accessories that allow you to use your saw more effectively and in diverse applications, e.g.:

- set-back stop FS-RSP
- SB-TSC chip collection bag
- PA-A HK elbowed parallel side fence, guided on both sides
- Groove unit VN-HK85 130x16-25

10.1 Saw blades, other accessories

In order to saw different materials quickly and cleanly, Festool offers saw blades for all applications and these are specially designed for your Festool saw.

10.2 Parallel side fence [8]

The parallel side fence (on both sides) is designed to guide the saw parallel to the edge of the workpiece **[8A]** and can also be used as an extension table **[8B]** to achieve a straight, precise cut.

10.3 Guide rail

The guide rail enables you to make clean, accurate cuts while simultaneously protecting the surface of the workpiece from damage.

In conjunction with the extensive range of accessories, exact angled cuts, mitre cuts and fitting work can be completed with the guide system. The option of attaching the guide rail securely using clamps **[7-6]** ensures safer working conditions.

- ▶ Adjust the guide play between the saw table and the guide rail using the two adjustable jaws **[7-8]**.

Bed in the splinter guard before using the guide rail for the first time[7-3]:

- ▶ Position saw with the entire guide plate at the rear end of the guide rail.
- ▶ Swivel saw to 0° position and set maximum cutting depth.
- ▶ Switch on saw.
- ▶ Slowly drop the splinter guard across the entire length without setting down.

The edge of the splinter guard now corresponds exactly to the cutting edge.

10.4 Cross cutting guide rail

The cross cutting guide rail is designed for sawing wood and panel materials.

It enables precise and clean cuts, in particular angled cuts can be performed simply and with repeat accuracy. The saw automatically moves back to the initial position after the sawing process.

Observe the instructions in the operating manual for the FSK cross cutting guide rail

11 Environment



Do not dispose of the device in the household waste! Recycle devices, accessories and packaging. Observe applicable national regulations.

EU only: In accordance with the European Directive on waste electrical and electronic equipment and implementation in national law, used power tools must be collected separately and handed in for environmentally friendly recycling.

Information on REACH: www.festool.com/reach

12 General information

Imported into the UK by

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