FESTOOL

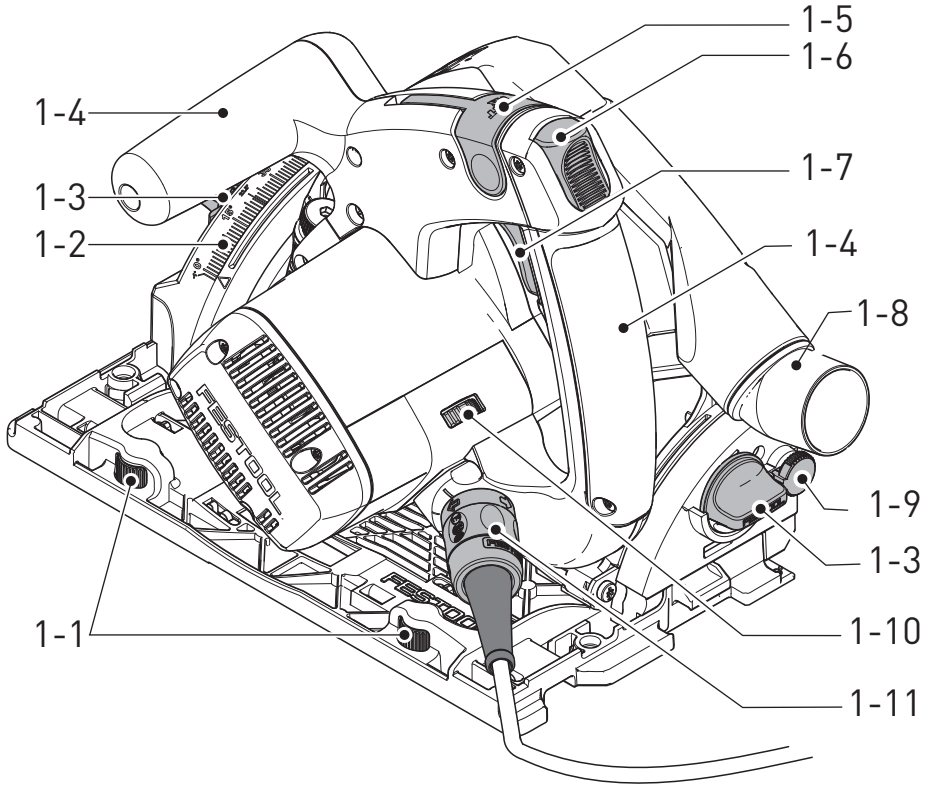
en	Original Original Instructions - Plunge-cut saw	6
fr	Notice d'utilisation d'origine- Scie plongeante	21
es	Manual de instrucciones original - Sierra de incisión	37

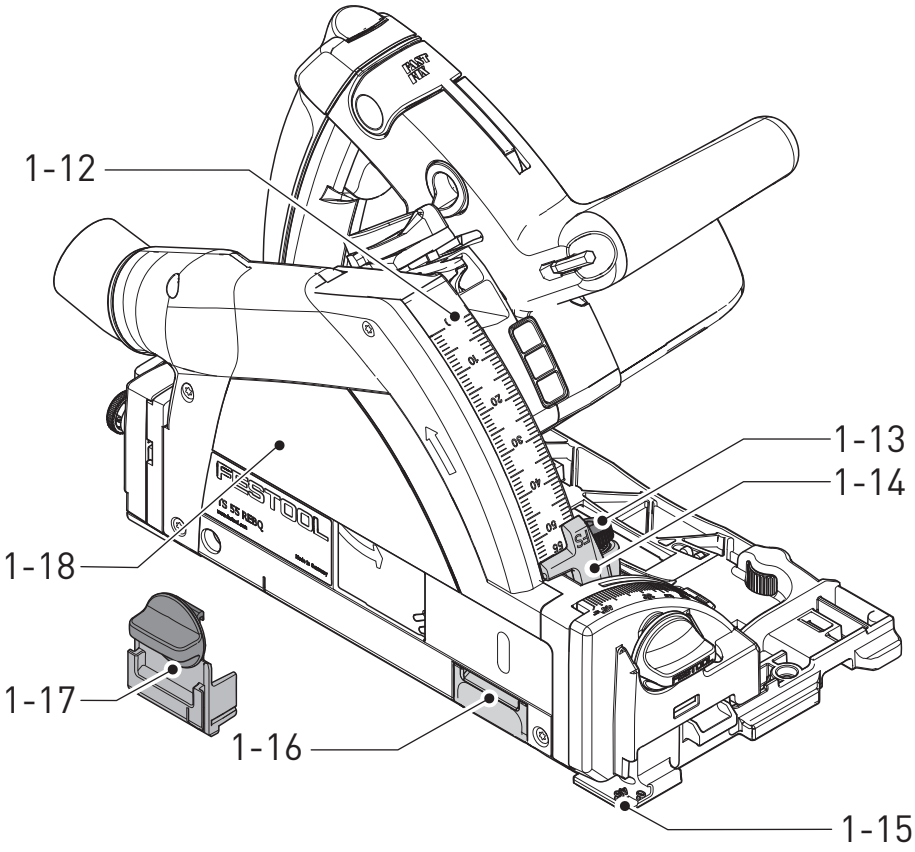
Read all instructions before using
Lire toutes les instructions avant de démarrer les travaux.
Lea y comprende todas las instrucciones antes de usar.

TS 55 FEQ

Festool GmbH
Wertstraße 20
73240 Wendlingen
Germany
www.festoolusa.com

721873_C / 2020-11-18





1

Contents

1 About this manual.....6
2 Symbols.....6
3 Safety warnings.....7
4 Intended use.....11
5 Technical data.....11
6 Functional description.....11
7 Commissioning.....11
8 Settings.....12
9 Working with the electric power tool.....15
10 Service and maintenance.....17
11 Accessories.....18
12 Environment.....19
13 General information.....19

1 About this manual

Save these instructions

It is important for you to read and understand this manual. The information it contains relates to protecting **your safety** and **preventing problems**. The symbols below are used to help you recognize this information.

	DANGER	Description of imminent hazard and failure to avoid hazard will result in death.
	WARNING	Description of hazard and possible resulting injures or death.
	CAUTION	Description of hazard and possible resulting injuries.
	NOTICE	Description of possible damage of the device or its surroundings.

2 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.

Pull out the mains plug

Disconnecting the mains power cable

Connecting the mains power cable

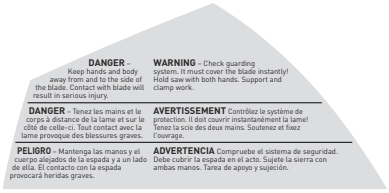
Direction of rotation of saw and the saw blade

Tool contains a chip which stores data. See section 13.1

Handling instruction

Tip or advice

Safety class II



DANGER Keep hands and body away from and to the side of the blade. Contact with blade will result in serious injury.

WARNING Check guarding system. It must cover the blade instantly! Hold saw with both hands. Support and clamp work.

W	watt
V	volt
A	amperes
Hz	hertz
~ a.c.	alternating current
⎓ d.c	direct current
n_0	no load speed
rpm	revolutions per minute
min^{-1}	revolutions per minute
"	inch
lb.	pound
⌀	diameter

3 Safety warnings

3.1 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.

1 WORK AREA SAFETY

a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2 ELECTRICAL SAFETY

a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
b. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3 PERSONAL SAFETY

a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
b. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

4 POWER TOOL USE AND CARE

a. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
b. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
e. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
f. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
h. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5 SERVICE

a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
b. **Only use original Festool parts for repair and maintenance.** The use of incompatible accessories or spare parts can result in electric shocks or other injuries.

3.2 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 corrective 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 and condition of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use.** The guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- **Assure that the base plate of the saw will not shift while performing a "plunge cut".** Blade shifting sideways will cause binding and likely kick back.
- **Always observe that the 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 the switch is released.

Function of the guide wedge [5-4]

- **Use the correct saw blade for the guide wedge.** To ensure that the guide wedge functions properly, make sure that 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.
- **Do not operate the saw if the guide wedge is bent.** Even the slightest problem can cause the guard to close more slowly.

3.3 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 other components.
- 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!

3.4 Further safety instructions

-

  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.
- **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 a P2 respiratory mask to protect your health. In enclosed spaces, ensure that there is sufficient ventilation and connect a mobile dust extractor.
- **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.
- 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.
- **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.

3.5 Sawing aluminium

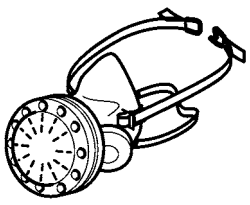
When sawing aluminium, the following measures must be taken for safety reasons:

- Use an aluminium saw blade.
- Close the viewing window/chip guard.
- Install an upstream residual-current circuit breaker (RCD, PRCD).
- When sawing panels, they must be lubricated with petroleum, but thin-walled profiles (up to 1/8" (3 mm)) can be sawed without lubrication.

3.6 Health hazard by dust

WARNING! various dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically treated lumber.



The risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Wash hands after handling.

WARNING

TO REDUCE THE RISK OF INJURY, USER MUST READ INSTRUCTION MANUAL.

4 Intended use

Plunge-cut saws are designed for sawing wood, materials similar to wood, gypsum and cement-bonded fibre materials and plastics.

When fitted with the special saw blades offered by Festool, the machines can also be used for sawing unhardened ferrous metal and non-ferrous metal.

Materials containing asbestos must NOT be processed.

Do not use cutting or sanding discs.

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

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

4.1 Saw blades

Only use saw blades with the following dimensions:

- Saw blades according to EN 847-1
- Saw blade diameter 6-1/4" (160 mm)
- Cutting width 1/16" (1.8 mm)
- Locating bore 3/4" (20 mm)
- Standard blade thickness 3/64" - 1/16" (1.1 - 1.4 mm)
- Suitable for speeds of up to 9500 min^{-1}

Festool saw blades comply with EN 847-1.

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

5 Technical data

Plunge-cut saw	TS 55 FEQ
Power	12 A
No-load speed	2000 - 5800 min^{-1}
Inclination	-1° to 47°
Cutting depth at 0°	0 – 2-1/8" (0–55 mm)
Cuttung depth at 45°	0 – 1-11/16" (0–43 mm)
Saw blade dimensions	6-1/4 x 1/16 x 3/4" (160 x 1.8 x 20 mm)
Weight (without mains cable) as per EPTA-Procedure 01:2014	9.9 lbs (4.5 kg)

6 Functional description

[1-1] Adjustable jaws

[1-2] Scale

[1-3] Rotary knobs for adjusting the angle

[1-4] Handles

[1-5] Lever for changing the tool

[1-6] Safety lock

[1-7] On/off switch

[1-8] Extractor connector

[1-9] Unlocking devices for undercuts -1° to 47°

[1-10] Speed control

[1-11] Mains power cable

[1-12] Split scale for the cutting depth stop (with/without a guide rail)

[1-13] Cutting depth adjusting screw for re-conditioned saw blades

[1-14] Cutting depth stop

[1-15] Gauge marker

[1-16] Viewing window/chip guard

[1-17] Splinter guard

[1-18] Protective lid

The pictures for the functional description are on a fold-out page at the beginning of the instruction manual. While reading the manual you can fold out the page for comparison and quick reference.

Accessories shown or described are not always included in the scope of delivery.

7 Commissioning

WARNING

Unauthorised voltage or frequency.

Risk of accidents

- ► The mains voltage and the frequency of the power source must correspond to the specifications on the name plate.
- ► In North America, only Festool machines with the voltage specifications 120 V/60 Hz may be used.

CAUTION

Heating of the Plug it connection if bayonet fitting is not completely locked

Risk of burns

► Before switching on the power tool, make sure that the bayonet fitting at the mains cable is closed fully and locked.

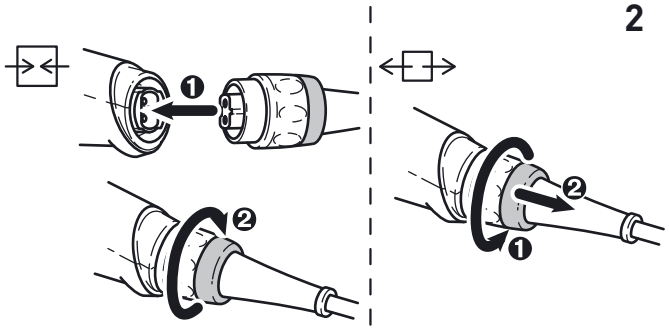
Always switch off the machine before connecting and disconnecting the mains power cable.

Connecting and detaching the mains power cable **[1-11]** see figure **2**.

Slide the safety lock **[1-6]** upwards and press the on/off switch **[1-7]** (press = ON/release = OFF).

Pressing the safety lock unlocks the plunging mechanism. The saw unit can then be moved downwards. This causes the saw blade to emerge from the guard.

2



7.1 Extension Cord

If an extension cord is required, it must have a sufficient cross-section to prevent an excessive drop in voltage or overheating. An excessive drop in voltage reduces the output and can lead to failure of the motor. The table below shows you the correct cord diameter as a function of the cord length for this tool.

Cord Size in A.W.G

Tool`s Ampere Rating	Cord Length in Feet			
	25	**50**	**100**	**150**
3-6	18	16	16	14
6-8	18	16	14	12
8-10	18	16	14	12
10-12	16	16	14	12
12-16	14	12	-	-

Wire Sizes in mm²

Tool`s Ampere Rating	Cord Length in Meters			
	15	**30**	**60**	**120**
3-6	0.75	0.75	1.5	2.5
6-8	0.75	1.0	2.5	4.0
8-10	0.75	1.0	2.5	4.0
10-12	1.0	2.5	4.0	-
12-16	-	-	-	-

Use only NRTL listed extension cords.

Never use two extension cords together. Instead, use one long one.

ⓘ The lower the AWG number, the stronger the cord.

8 Settings

WARNING

Risk of injury, electric shock

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

8.1 Electronics

The machines TS 55 FEQ come with full-wave electronics with the following properties:

Smooth start-up

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

Constant speed

The motor speed is electronically kept constant. This ensures a uniform cutting speed even when under load.

Speed control

You can continuously adjust the speed within the speed range using the adjusting wheel **[1-10]** (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

Speed range per material	
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.

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.

8.2 Adjusting the cutting depth

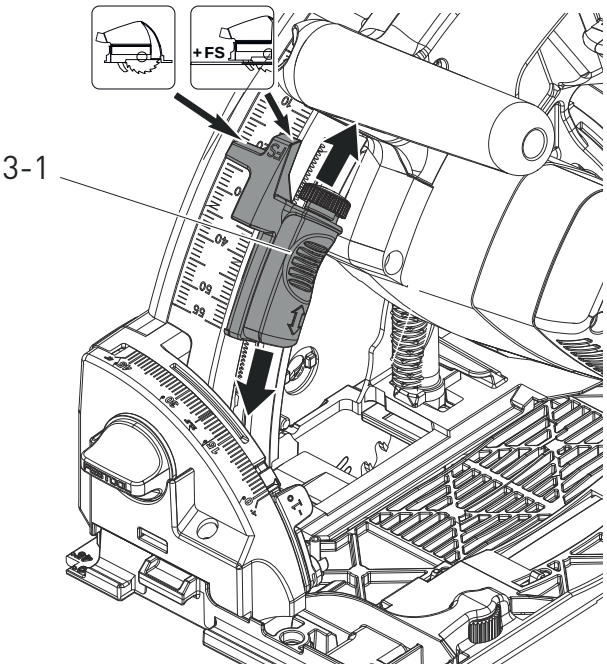
The cutting depth can be set at 0 - 2-1/8" (0 - 55 mm) at the cutting depth stop **[3-1]**.

The saw unit can now be pushed downwards as far as the cutting depth that is set.

Cutting depth without guide rail
max. 2 - 1/8" (55 mm)

Cutting depth with FS guide rail
max. 1 - 15/16" (51 mm)

3



8.3 Setting the cutting angle

between 0° and 45°:

- ► Unscrew the rotary knobs **[4-1]**.
- ► Swivel the saw unit to the desired cutting angle **[4-2]**.
- ► Tighten the rotary knobs **[4-1]**.

ⓘ Both positions (0° and 45°) are set at the factory and can be readjusted by the customer service team.

⚠ When making angled cuts, slide the viewing window/splinter guard to the highest position.

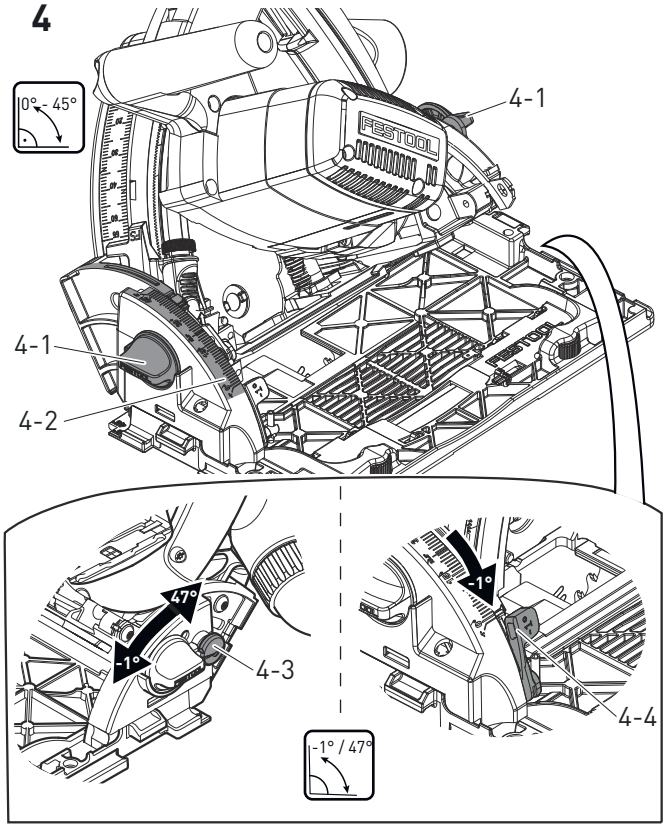
To undercut -1° and 47°:

- ► Swivel the saw unit to the end position (0°/45°) as described above.
- ► Pull out the release button **[4-3]** slightly.
- ► For -1° undercuts, also pull the release button **[4-4]**.

The saw unit engages in the -1°/47° position.

- ► Tighten the rotary knobs **[4-1]**.

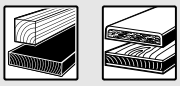
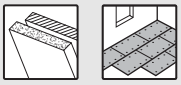
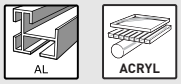
4



8.4 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.

Refer to the necessary saw blade data (see section 4.1).

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

8.5 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.

CAUTION

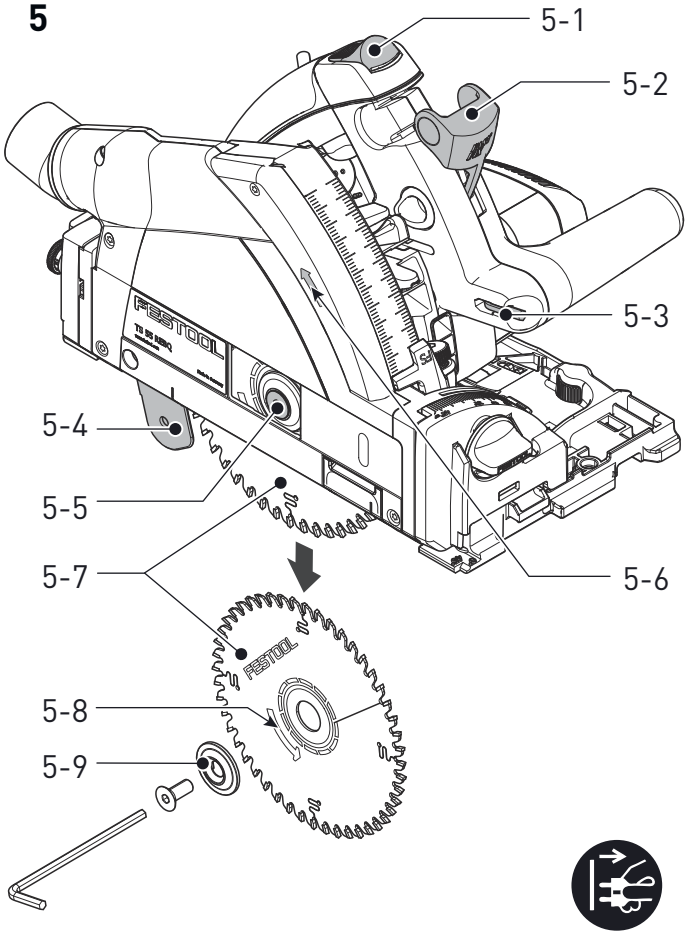
Risk of injury from hot and sharp insertion tool

- ► Do not use any blunt or faulty insertion tools.
- ► Wear protective gloves when handling an insertion tool.

Remove the saw blade

- ► Swivel the machine to 0° before replacing the saw blade and adjust the maximum cutting depth.
- ► Turn the lever **[5-2]** as far as it will go.
- ► Slide the safety lock **[5-1]** upwards and push the saw unit downwards until it clicks into place.
- ► Loosen the screw **[5-5]** using the Allen key **[5-3]**.
- ► Remove the saw blade **[5-7]**.

5



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 **[5-8]** and saw **[5-6]** must match. Serious injuries may occur in the event of non-compliance.

► Insert the outer flange **[5-9]** so that the pin engages in the recess on the inner flange.
► Tighten the screw **[5-5]**.
► Reposition the lever **[5-2]**.

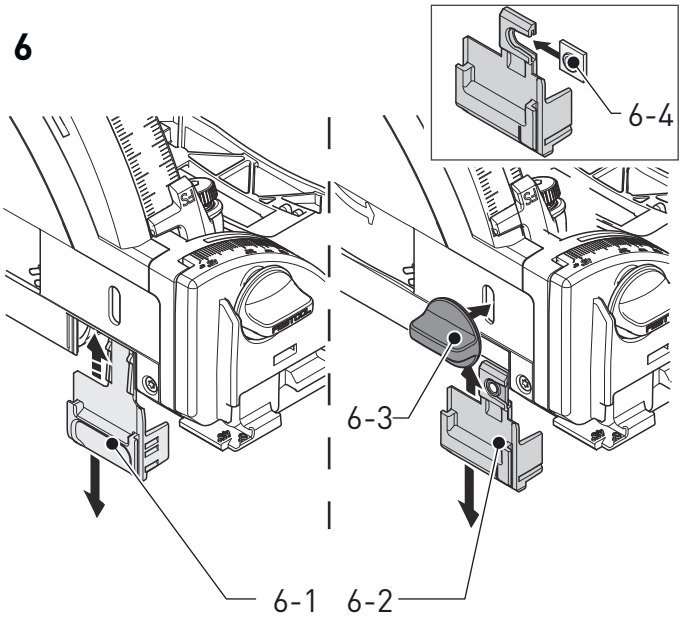
8.6 Fitting the viewing window/splinter guard

The **viewing window** (transparent) **[6-1]** provides a view of the saw blade and optimises dust extraction.

With 0° cuts, the **splinter guard** (green) **[6-2]** also improves the quality of the cutting edge of the sawn-off workpiece on the upper side.

► Insert the splinter guard **[6-2]**.
► Screw the rotary knob **[6-3]** through the long hole in the splinter guard.
► Make sure that the nut **[6-4]** is seated securely in the splinter guard.
► **CAUTION! Only use the rotary knob supplied with your plunge-cut saw.** The rotary knob of another saw may be too long and jam the saw blade.

6



Sawing a splinter guard

You must bed in the splinter guard before using it:

► Set the machine to maximum cutting depth.
► Set the machine speed to 6.
► Place the machine for sawing the splinter guard on a test piece of wood.

8.7 Dust extraction

WARNING

Heath hazard posed by dust

► Always work with an extractor.
► Only use a dust extractor designed to collect the specific type of dust and particles from the material being cut.
► Follow OSHA and NFPA regulations to ensure a safe work environment.

Festool mobile dust extractor

A Festool mobile dust extractor with a suction hose diameter of 1-1/16"/1-17/64" (27/32 mm) or 1-7/16" (36 mm) (36 mm recommended due to the reduced risk of clogging) can be connected to the extractor connector .

The adapter on a 1-1/16" (27 mm) diameter suction hose is inserted into the angle adapter . The adapter on a 1-7/16" (36 mm) 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.

9 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

– Before each use, check whether the drive unit with the saw blade correctly and fully swivels back up into its initial position in the protective housing. Do not use the saw if the upper end position is not secured. Never clamp or secure the swivelling drive unit at a specific cutting depth. This would mean that the saw blade is not protected.
– Check the plunging mechanism prior to use and do not use the machine if it does not work correctly.
– Check that the saw blade is securely in place.
– Make sure that the rotary knob **[1-3]** is tightened before starting work.
– Make sure that extractor hose and mains power cable do not snag the entire saw cut, either on the workpiece, the workpiece support or hazards on the ground.
– Always secure the workpiece in such a way that it cannot move during machining.
– Position the workpiece so that it is stress-free and level.

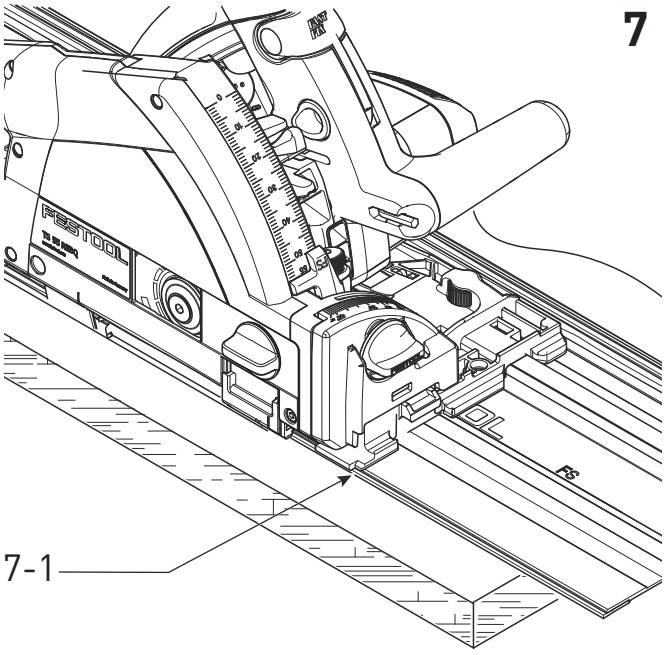
During work

- When working, always hold the power tool **with both hands** on the handles **[1-4]**. 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 **[8-1]**, 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.
- 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.
- Make sure that the guard completely surrounds the saw blade before placing the saw on the worktop or on the ground.

9.1 Sawing along the scribe mark

The gauge marker **[7-1]** displays the cutting line for 0° and 45° cuts (without a guide rail).

7



9.2 Cutting sections

Position the machine with the front part of the saw table on the workpiece, switch on the machine, push it down to the set cutting depth and push it forward in the cutting direction.

9.3 Sawing cut-outs (plunge cuts)

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

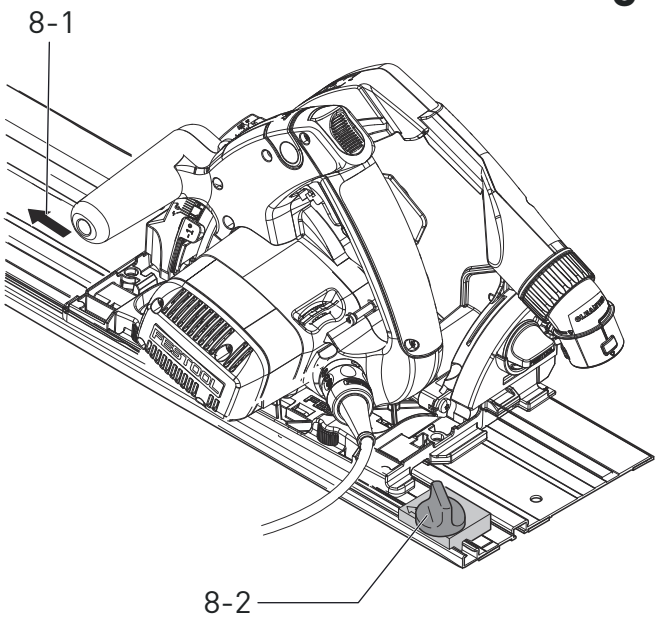
- Always position the machine with the rear edge of the saw table against a fixed stop.
- When working with the guide rail, position the machine at the FS-RSP kickback stop (accessory) **[8-2]**, which is clamped to the guide rail.

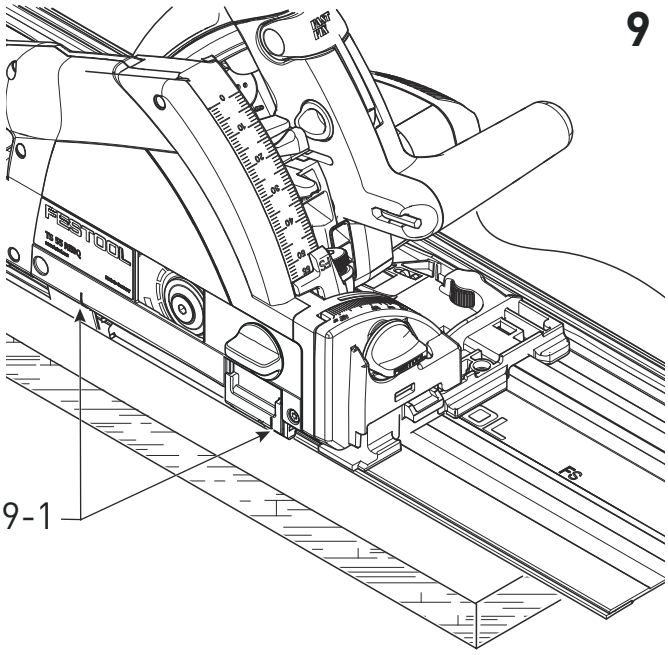
Procedure

► Place the machine on the workpiece and position it at a stop (kickback stop).
► Switch on the machine.
► Slowly push the machine down to the set cutting depth and push it forward in the cutting direction.

*The marks **[9-1]** indicate the absolute front and rear cutting points of the saw blade (Ø 6-1/4" (160 mm)) when using the saw at maximum cutting depth with the guide rail.*

8





9.4 Gypsum and cement-bound fibreboards

Due to the high volume of dust, it is recommended to use the cover ABSA-TS55 (accessories) which can be mounted at the side at the protective cover and a Festool mobile dust extractor.

10 Service and maintenance

WARNING

Any maintenance or repair work that requires opening of the motor or gear housing should only be carried out by an authorised Customer Service Centre (name supplied by your dealer)!

► Maintenance or repair work carried out by an unauthorised person can lead to the wrong connection of the power cord or other components, which in turn can lead to accidents with serious consequences.

WARNING

To prevent accidents, always remove the plug from the power supply socket before carrying out any changes or maintenance work on the tool!

► Do not use compressed air to clean the electrical tool! Do not try to clean parts inside the tool in this way, as you could let foreign objects in through the openings of the tool housing.

CAUTION

Certain cleaning agents and solvents are harmful to plastic parts.

► Some of these include, but are not limited to: Gasoline, Acetone, Methyl Ethyl Ketone (MEK), Carbonyl Chloride, cleaning solutions containing Chlorine, Ammonia, and household cleaners containing Ammonia.

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

Always use original Festool spare parts. Order no. at: www.festoolusa.com/service

The tool is equipped with special self-disconnecting carbon brushes. If they wear out, the power supply is disconnected automatically and the tool stops.

Observe the following instructions:

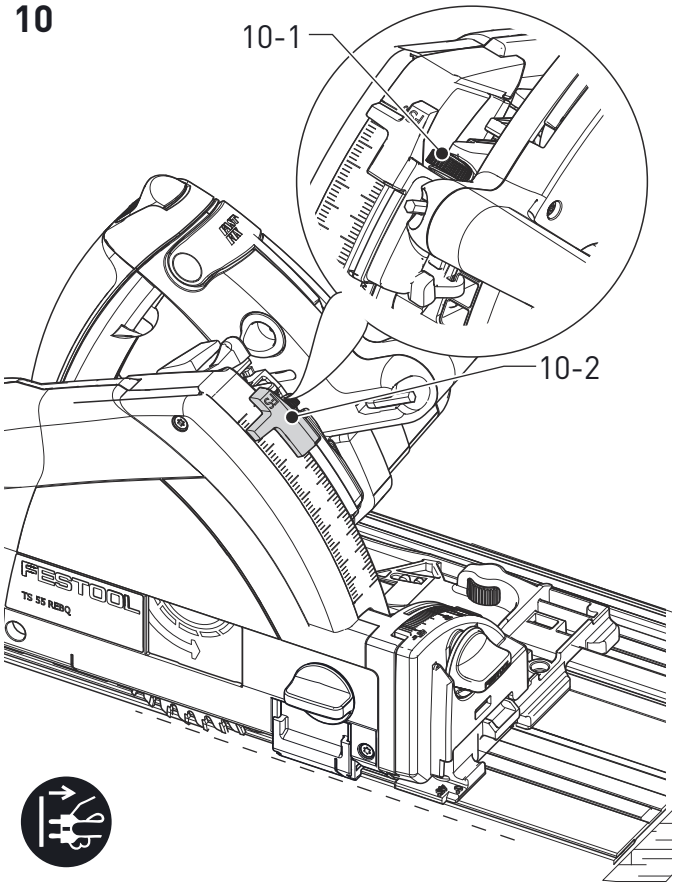
► Damaged safety devices and parts, such as a faulty lever for changing tools **[1-5]**, must be properly repaired or replaced in a recognised specialist workshop, unless otherwise indicated in the operating manual.
► Check the condition and fault-free functioning of the recuperating springs, which push the entire drive mechanism bearing into the upper protected end positions.
► 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 **[1-18]**.
► 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

10.1 Reconditioned saw blades

You can use the adjusting screw **[10-1]** to precisely set the cutting depth for reconditioned saw blades.

► Set the cutting depth stop **[10-2]** to 0 mm (with guide rail).
► Unlock the saw unit and push it downwards as far as the stop.
► Screw the adjusting screw **[10-1]** in until the saw blade comes into contact with the workpiece.

10



10.2 Saw table wobbles

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

If the saw table wobbles, the setting must be implemented again **(Section 8.3)**.

11 Accessories

Always use accessories and consumable materials approved by Festool. See Festool catalogue or www.festool.com.

The power tool may become unsafe and lead to serious accidents if other accessories and consumables are used.

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

- Parallel stop, table widener PA-TS 55
- Side-mounted cover, false joint ABSA-TS 55
- Kickback stop FS-RSP
- Parallel stop FS-PA and guide extension FS-PA-VL
- Multifunction table MFT/3

11.1 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.

11.2 Guide system

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 **[11-2]** ensures safer working conditions.

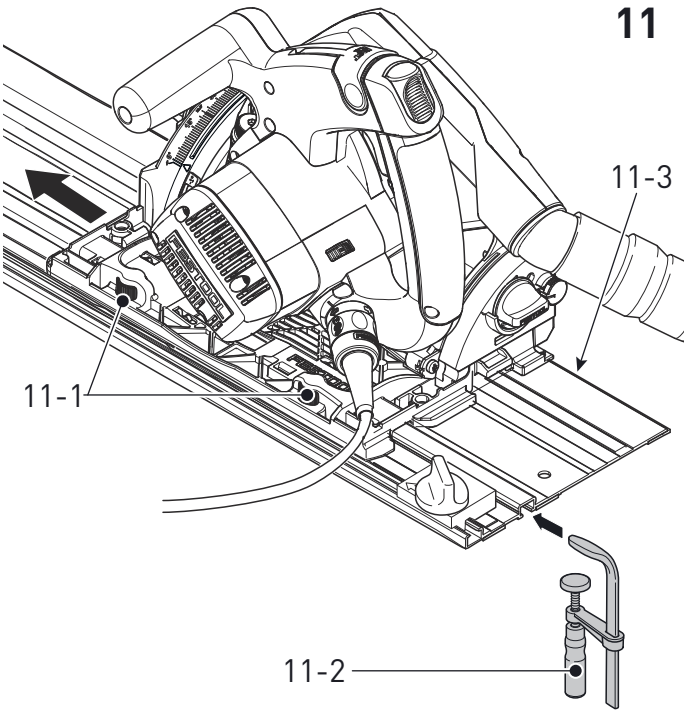
► Adjust the guide play between the saw table and the guide rail using the two adjustable jaws **[11-1]**.

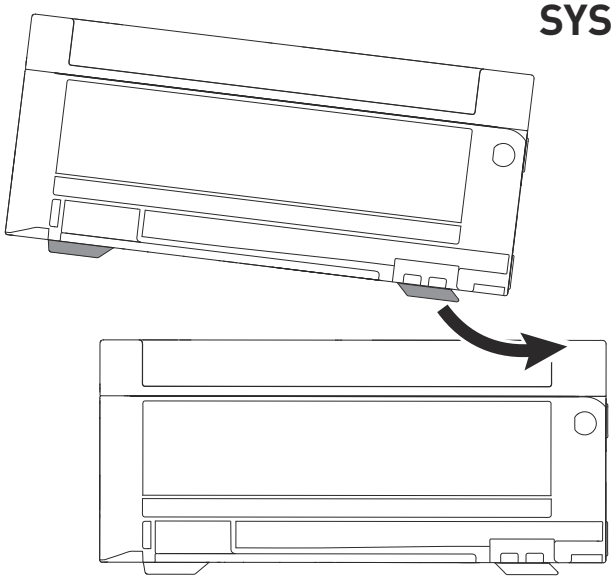
Bed in the splinter guard [11-3] before using the guide rail for the first time:

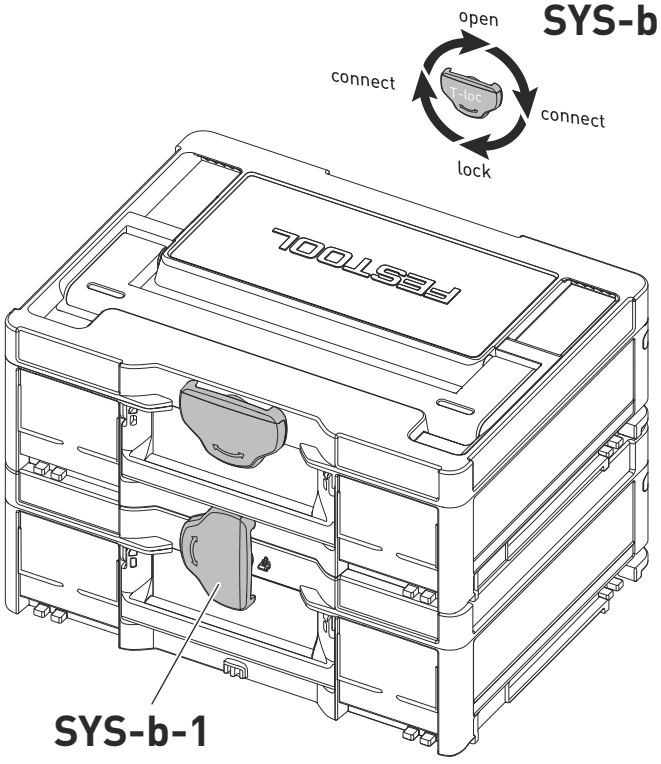
► Set the machine speed to 6.
► Place the machine at the rear end of the guide rail together with the complete guide plate.
► Switch on the machine.
► Push down the machine slowly to the max. preset cutting depth and cut along the full length of the splinter guard without stopping.

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

ⓘ Position the guide rail for sawing the splinter guard on a test piece of wood.







11.3 SYSTAINER

Systainer

Many Festool products are shipped in a unique system container, called "Systainer". This provides protection and storage for the tool and accessories. The Systainers are stackable and can be interlocked together. They also can be interlocked atop Festool CT dust extractors.

To open the Systainer

Turn the T-loc **[SYS-b-1]** to this position.

To lock the Systainer

Turn the T-loc **[SYS-b-1]** to this position.

To connect two Systainers

Place one Systainer on the top of the other (Fig. **[SYS-a]**).

Turn the T-loc **[SYS-b-1]** to one of this positions (Fig. **[SYS-b]**).

The Systainers are connected and locked.

ⓘ A Systainer Classic Line can be connected to a Systainer T-Loc or to a Systainer³ from below via its four locking devices.

A Systainer T-Loc can be connected to a Systainer³ both from below and from above.

12 Environment

Do not dispose of the device as domestic waste! Dispose of machines, accessories and packaging at an environmentally responsible recycling centre. Observe the respective national regulations.

13 General information

13.1 Information on data privacy

The power tool contains a chip which automatically stores machine and operating data. The data saved cannot be traced back directly to an individual.

The data can be read in a contactless manner using special devices and shall only be used by

Festool for fault diagnosis, repair and warranty processing and for quality improvement or enhancement of the power tool. The data shall not be used in any other way without the express consent of the customer.