

Operating instructions

EDER attachments with chain drive

Chainsaw attachment for working logs and wood

EN



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About this guide

Validity

These instructions apply to attachments (accessories) to be mounted on chainsaws for debarking and milling tree trunks and wood in the following variants:

EDER Bark Stripper ESG-C

EDER Flat Planer EPH-C

EDER Curved Planer ERH-C

EDER Contour Planer EKH-C

EDER Groove Cutter ENF-C

EDER Wire Brush ERB-C

EDER Bark Beetle Cutter EBF-C

They are aimed at forestry professionals and private individuals with basic knowledge of wood processing.

The instructions contain important information on how to properly mount the attachments on a chainsaw, start them up, operate them, use them, maintain them and rectify simple faults yourself.

Warranty

Attachments are covered by the statutory warranty period. The seller must be notified immediately of any defects that can be proven to be due to material or assembly errors. Proof of purchase of the attachment must be provided by presenting the invoice and receipt when making a claim under the warranty. The warranty is excluded with regard to the parts if the defects are caused by natural wear and tear, temperature, weather conditions as well as defects resulting from faulty connection, installation, operation, lubrication or force. Furthermore, no warranty is given for damage caused by unsuitable improper use of the machine, e.g. improper modifications or repair work carried out by the owner or third parties under his or her own responsibility, or in the case of deliberate machine overload. The manufacturer does not accept any warranty for:

- Parts which are subject to natural wear and tear
- Non-compliance with the operating instructions and insufficient or incorrect care
- The consequences of improper maintenance and servicing
- Damage from improper handling and incorrect operation

Guarantee

The warranty period shall be 24 months from the date of delivery for exclusively private use, and 12 months for commercial or professional use or application or for rental. The statutory warranty remains unaffected. Warranty claims must always be proven by the buyer by

means of the original purchase receipt. A copy of this is to be enclosed with the warranty application. The buyer's address and machine type must be clearly identifiable for professional or commercial use. Any defects occurring within the warranty period due to material or manufacturing faults must be remedied by repair if they have occurred despite proper operation and care of the machine.

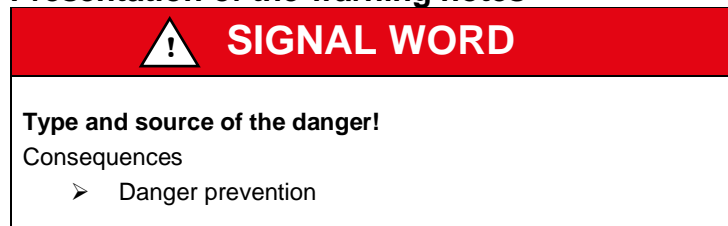
No guarantee or warranty

Using the chainsaw with the attachments will invalidate the chainsaw warranty.

Eder Maschinenbau GmbH is not liable for any damage to the chainsaw used. Use the chainsaw with the attachments at your own risk.

Wear items such as chains, sprockets, knives and guide bars are excluded from the warranty.

Presentation of the warning notes




- The **warning sign** (warning triangle) draws attention to danger of life or injury.
- The **signal word** indicates the severity of the danger.
- The paragraph "**Type and source of danger**" indicates the type or source of danger.
- The paragraph "**Consequences**" describes the possible consequences of not observing the warning.
- The paragraph "**Danger prevention**" indicates how to avoid the danger. It is imperative that you comply with these measures for averting danger!

The signal words have the following meaning:

Warning word	Meaning
DANGER!	Indicates a hazard that will certainly lead to death or serious injury if you do not avoid the danger.
WARNING!	Indicates a hazard that can lead to death or serious injury if you do not avoid the danger.
CAUTION!	Indicates a hazard that can lead to minor or moderate injury if you do not avoid the danger.
ATTENTION!	Indicates possible damage to property. The environment, material assets or the plant itself can be damaged if you do not avoid the danger.

Symbols used in this manual

Symbol	Meaning
	If this information is not observed, this can lead to deterioration in the operating process.
>	Instruction for action: Describes actions that must be carried out.

Safety instructions

The attachments for chainsaws were manufactured in accordance with the generally recognised rules of technology. Nevertheless, there is a risk of personal injury and damage to property if you do not observe the following basic safety instructions and the warnings preceding instructions in this manual.

- > Read these instructions thoroughly and completely before working with the chainsaw attachment.
- > Keep the manual in a legible condition.
- > Make sure that the manual is always accessible to all users.
- > Always pass on the chainsaw attachment to third parties together with this manual.

Intended use

The attachments are designed as interchangeable equipment for mounting on chainsaws.

Only chainsaws that have been tested by Eder Maschinenbau GmbH for compatibility with Eder attachments may be used as drive motors. An overview can be found at www.eder-maschinenbau.de/produkte/anbaugeraete-fuer-motorsaegen-produkte

The various attachments can be interchanged with each other. You may only use the chainsaw attachments for the activities described in these instructions. You must always respect the performance limits of the device.

The attachments are approved for use in forestry as well as for private use. It is designed exclusively for operation by one person. Never allow two or more persons to work on one device.

Intended use also implies that you have read and understood this manual in its entirety and in particular the chapters "Safety instructions" and "Design and function".

Improper use

Any use not in accordance with the intended use is not permitted. The following is considered improper use:

- removing or modifying safety devices,
- using the attachment in any other way than described in the chapter "Intended use",
- mounting the attachment in any other way than described in the chapter "Assembly",
- using the attachment under operating conditions that differ from those described in this manual.

If the device is not used as intended, all warranty claims will become void.

The manufacturer is not liable for damage to the device and for personal injury resulting from improper use.

Qualification of the personnel

The attachments for chainsaws may only be mounted, operated, maintained and repaired by persons who have familiarised themselves with the device and the associated dangers by means of these instructions.

Persons who assemble, operate, disassemble or maintain the attachments must not be under the influence of alcohol, other drugs or medicines that affect their ability to react, nor must they be tired, ill or irritable.

Persons under the age of 18 may only use the device under the supervision of a qualified person.

Points to observe

General safety instructions

- > Always follow the instructions in this manual to avoid hazards and prevent damage.
- > Observe the relevant accident prevention regulations and other generally recognised safety and occupational health rules.
- > Only carry out repair, set-up, maintenance and cleaning work and transport the device when the drive is switched off and the tool is stationary.
- > Operate the device exclusively with the protective equipment fitted or provided by the manufacturer.
- > Never leave the device unattended during operation.
- > If you have long hair, wear a hairnet when working with the device.
- > Do not smoke while refuelling or while working with the device.
- > When using the device, observe the information on vibrations and sound level given in the chapter Technical data.

Safety instructions for the workplace

- > Ensure that the workplace and the traffic routes required for transporting the wood to and from the site are safe.
- > Keep the working area free of wood debris, obstacles and tripping hazards. Eliminate slippery and smooth areas. Do not use sawdust or wood ash for this purpose, otherwise there is a risk of slipping.
- > Ensure adequate lighting at the workplace.
- > Ensure that a level and step-resistant area with sufficient freedom of movement is available for working.
- > When using chainsaws with combustion engines, only work in well-ventilated environments and not in enclosed spaces. Exhaust fumes contain toxic carbon monoxide.
- > Do not allow persons to approach the running device. Keep persons and animals away from the workplace. Children, animals and adults must keep at least 10 metres away from the running device.
- > Never work in the rain as the stability in wet conditions is impaired.
- > Do not leave the device standing in the rain.

Behaviour in an emergency

If, for example, malfunctions or dangerous situations pose an immediate risk of injury to persons or damage to the device:

- > Switch off the device to which the attachment is mounted.

- > Have the malfunctions eliminated by your specialist dealer.

Safety devices

Attachments may only be used with the protective and safety equipment (e.g. protective plate) provided for the intended use. Protective and safety equipment must never be disabled and must be cleaned if necessary.

Personal protective equipment

- > Always wear the following personal protective equipment when operating the machine:
 - Safety shoes with steel toecap
 - Tight-fitting clothing, a hair net if necessary
 - Suitable work gloves
 - Safety helmet with face protection
 - Hearing protection
 - Cut-resistant trousers



The personal protective equipment must comply with the applicable accident prevention regulations.

Design and function

Function

With the different versions of the attachment you can achieve different contours when working the wood. The individual attachments can be exchanged for another attachment in a few easy steps.



EDER Bark Stripper Head ESG-C 400200

Design: The ESG-C bark stripper head is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.

Field of application: For peeling logs of any diameter.

The design of the cylinder results in high cutting performance with minimum effort.

Tungsten carbide pins placed directly behind the knives are designed in such a way that the distance between the knives and the log is maintained automatically and independently of the bark thickness over

the entire length of the log. Knots and thin branches are easily and cleanly milled off.

The cylinder is straight and mills a flat surface similar to that of the peeling knife. This allows you to use the device at an angle or crosswise when working on the side of the trunk and when peeling root knots.



For the processing of robinia wood we recommend the use of the contour planer EKH.

EDER Flat Planer EPH-C 400600



Design: The EPH-C flat planer is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.

Field of application: For planing flat or round wood surfaces from 30 cm diameter.

The design of the cylinder results in high cutting performance with minimum effort.

The knives mounted on the rotating cylinder are continuously adjustable, allowing you to set both the cutting radius and the cutting depth according to the desired chip thickness.

On the cylinder there are four knives distributed on two levels, which produce a smooth surface without vibrations.

EDER Curved Planer ERH-C 400700



Design: The ERH-C curved planer is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.

Field of application: For planing round, flat or curved wood surfaces up to 30 cm diameter.

The design of the cylinder results in high cutting performance with minimum effort.

The knives mounted on the rotating cylinder are continuously adjustable, allowing you to set both the cutting radius and the cutting depth according to the desired chip thickness.

On the cylinder there are four knives distributed on two levels, which produce a smooth surface without vibrations.

EDER Contour Planer EKH-C 401900

Design: The EKH-C contour planer is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.



Field of application: For planing straight and wavy wooden surfaces, e.g. when building log houses, children's playgrounds, bonanza fences and similar projects. Well suited for very hard woods such as robinia wood.

The design of the cylinder results in high cutting performance with minimum effort.

The adjustable minimum knife projection setting effectively prevents the log from splitting. As one rotation of the cylinder means only one cut at working width, the reaction forces are kept to a minimum. Knots and thin branches are easily and cleanly planed off.

EDER Groove Cutter ENF-C 400800

Design: The ENF-C groove cutter is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw. Up to three knives of 10mm width each can be used to achieve cutting widths up to 30mm.



Field of application: For milling channels and grooves in wood surfaces, e.g. when building log houses, children's playgrounds, carving sculptures and in similar projects.

The design of the milling head results in high cutting performance with minimum effort.

Up to three knife discs can be mounted on the support, producing a smooth surface without vibration.

EDER Wire Brush ERB-C 401500

Design: The ERB-C wire brush is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.



Field of application: For processing and cleaning wood surfaces, metallic surfaces such as steel or iron and for removing rust or old paint.

The EDER Wire Brush ERB is exceptionally suitable for working out the natural structure of the wood grain on boards, beams and round timber, e.g. during construction, restoration and maintenance work on log houses, children's playgrounds, park benches, wooden fences, on weathered and rotten wood and similar projects.



EDER Bark Beetle Cutter EBF-C 400900

Design: The EBF-C bark beetle cutter is mounted on a bar that matches the chainsaw and is driven by a chain just like a normal chainsaw. No modifications are required to the chainsaw.

Field of application: The device is suitable for carving the bark of trees to destroy the habitat of bark beetles. Resin bleeds from the carved areas and hardens on the surface. This hinders the development of bark beetle larvae. Furthermore, the decomposition of the scratched tree trunk is promoted because it dries out less quickly than after debarking. In addition, fungal spores and microbes find plenty of surface area to attack in the scratches.

Scope of delivery

Check completeness of the delivery

The scope of delivery of the selected attachment includes:

- 1x attachment
- 1x Allen wrench 6 mm
- 1x pin wrench
- 1x setting gauge (ESG-C, EPH-C, ERH-C, EKH-C,)
- 1x operating instructions
- 1x groove nut wrench (EBF) / 2x groove nut wrenches (ERB)

The bar, chain and drive sprocket are not included in the scope of delivery, as these must be selected depending on the chainsaw used.

Check transport damage

Visible transport damage can be recognized by packaging damage or by scratched and deformed parts on the device.

- > Be sure to make a note of the damage on the delivery note: both on the copy you receive and on the one that you must sign.
- > Make sure that the deliverer (driver) countersigns.

If the deliverer refuses to confirm the transport damage, you should refuse to accept the delivery and inform us immediately. A claim in retrospect, without a direct note on the delivery note, will not be accepted either by the carrier or by the transport insurer.

If you suspect latent transport damage:

- > Report concealed transport damage within two days at the latest, which means that you must have checked your delivered goods within this period. Reporting damage after this time is usually not accepted.
- > Make a note on the shipping documents in any case: "Goods are accepted subject to concealed transport damage".

Insurance companies of carriers often react very suspiciously and refuse to provide compensation. Therefore, try to prove the damage clearly (send a photo if possible).

Transport



CAUTION

Risk of injury by the attachment head!

The cutter head of the attachment has sharp-edged tools that can cause injuries.

- > Ensure that there is sufficient distance between the cutter head of the attachment and persons.
- > Carry the motorised handheld device with the cutter head of the attachment facing backwards and the exhaust pipe turned away from the body.

ATTENTION

Danger from leaking fuel!

If the fuel tank inlet is not properly closed, fuel may leak and pollute the environment.

- > Before transportation, check whether the fuel tank inlet is correctly closed.
- > When transporting the device on vehicles, secure it against tipping over.

Assembly

WARNING

Danger during assembly with the drive motor running!

This may result in injury.

- > Switch off the drive motor before assembling the unit and secure the device against being switched on again.

Danger from changes to the device!

This may result in injury.

- > Only carry out assembly work described in this manual.
- > Do not adjust the support, the chain, the knives or the milling head while the engine is running. The chain must be correctly tensioned.
- > Only use original spare parts. These can be ordered directly from Eder Maschinenbau GmbH or from your dealer (see back page for address)

Converting and using the chainsaw with the Eder attachments voids the chainsaw's warranty. Eder Maschinenbau GmbH accepts no liability for damage to the chainsaw!

Mounting the attachment

ATTENTION

- > Use a new sprocket on your chainsaw before using the attachment. Retracted sprockets/chainrings can lead to damage or higher wear on the drive chain.
- > The sprocket/chainring used on the drive motor must have a maximum of 7 teeth.
- > When fitting, make sure you have the correct designation for your sprocket/chainring. *3/8 LP*, *3/8 Micro*, *3/8 Hobby*, *3/8 Picco* etc. are not compatible with *3/8"*.

- > Place the guide bar (**1** - Fig.1) between the screws (**2** - Fig.1) in the same way as a normal chainsaw bar.
- > Note that **the bar is not symmetrical**. The oil holes are in different positions on the two sides of the bar. Choose the correct side of the guide bar depending on the chainsaw used.
- > Check that the oil hole of the guide bar is on the oil groove of the chainsaw - if not, turn the guide bar over. (To check the position, clean the saw around the oil groove and apply some oil in the oil groove. Then place the guide bar against the chainsaw in its intended position and carefully remove it again. The oil in the groove then leaves a mark on the bar).
- > The hole (**3** - Fig.1) in the support must be located at the chain tensioner driver. Depending on the type of chainsaw, this is mounted on the motor side or in the cover (**4** - Fig.1).
- > Screw the head you want to use with the 4 M6x20 screws (**1** - Fig. 2). Check the screws regularly for tightness. The head can be screwed on in different positions depending on the chainsaw model. The correct position is the one that allows the drive chain to be sufficiently tensioned and re-tensioned.
- > Screw the drive sprocket onto the housing (**2** - Fig.2) and tighten it with the pin wrench (**3** - Fig.2).
- > Now place the chain around the chainsaw sprocket and around the drive sprocket. Insert the drive links into the rail. Make sure that the chain is running in the correct direction (Fig. 3)

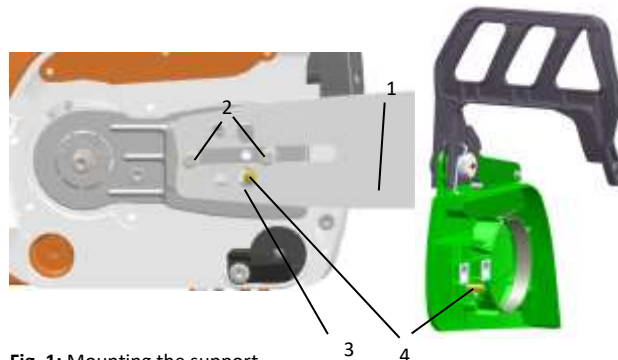


Fig. 1: Mounting the support



Fig. 2: Fastening the peeling head to the support

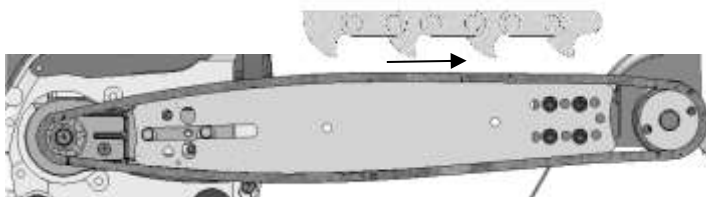


Fig. 3: Putting on the chain

> Fit the protective plate to the guide bar (**1** – Fig. 4).

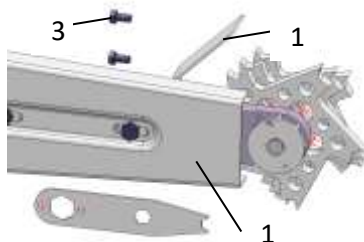


Fig. 4.: Mounting the protective plate

> The groove cutter has another protective plate (**2** -Fig.4). This is screwed to the housing with two hexagonal screws (**3** - Fig.4).

ATTENTION

Chain and drive sprocket pitch

Only use chains and drive sprockets matching the chainsaw and having the same pitch.

ATTENTION

- > Put the side plate back on the device, slightly fasten it and tension the chain. A new chain needs to be retensioned more often. Check the chain tension more often.
- > Tighten the screws of the side plate firmly.

ATTENTION

Chain tension

- > Check the chain regularly for correct chain tension. To do this, always switch off the engine!
- > The chain is correctly tensioned if you can pull it slightly out of the guide bar by hand with the chain brake released. The chain must not be lifted more than 4 mm from the guide bar.

Commissioning and operation

ATTENTION

Damage to knives and tools!

Nails, adhering sand and other foreign bodies can damage the knives and tools of the attachment.

- > Check the logs to be worked before each use. If necessary, remove nails, sand and other foreign objects before milling.

Before starting the motorised handheld device, make sure you have safe working conditions. Check that

- > the attachment has been correctly mounted,
- > the chain is sufficiently tensioned and not damaged,
- > the chain brake is functional,
- > all knives and tools are correctly mounted and firmly seated (tightening torque 35 Nm)
- > the handles are clean and dry,

- > both the fuel tank and the device are located outside of flammable environments. Note that closed, empty fuel tanks may contain explosive vapours.

Starting the engine

CAUTION

Danger of injury due to rotating tools!

After you have released the throttle trigger, the device will continue to rotate for a short time (freewheel).

- > Before starting the engine, make sure that all protective housings and protective plates are fitted to the attachment.

- > Place the motorised handheld device on the ground so that the device does not touch any foreign objects.
- > Never start the device in a hanging position.
- > Keep the device away from your body during work.
- > Make sure that no one is in the working area of the device.

Operation

WARNING

Risk of injury due to unsafe standing position!

There is a risk of injury if your standing position is not stable or if you work overhead.

- > Always take a safe and stable position.
- > Never work on icy or wet surfaces, as there is a risk of slipping.
- > Never work on ladders or in unstable positions.
- > While working, hold the device firmly with both hands so that no parts of the body can approach the chain, the tool head or the exhaust pipe. Grasp firmly the throttle handle with your right hand and the front handle with your left hand. This also applies to left-handed persons.
- > Do not hold the device above your head when working and always use both hands when working.
- > Work calmly and carefully with good visibility and adequate lighting.

Risk of injury!

WARNING

If you do not observe the following points, injuries are possible due to rebounding of the device.

- > Only work on wood with the device (except for the Wire Brush ERB-C).
- > During work, make sure that the cutter head does not touch any foreign objects (stones, glass, metal objects, etc.) that could damage the cutter head or the chain
- > When the engine is running, place the cutter head or wire brush on the trunk surface only at operating speed.
- > Make sure that the throttle trigger is not blocked by the throttle lock when working with the device, as in this case it is not possible to control the rotation.
- > Check that the knives are firmly seated before each use.
- > Switch off the device before putting it down.

ATTENTION

Chain brake

- > On some models, frequent use of the chain brake at high speeds can damage the drive motor.
- > Only use the chain brake in emergency and dangerous situations, with the engine running idle or when the engine is switched off

ATTENTION

Lubrication

- > After each replacement of the guide bar, check whether oil is being pumped through the groove of the bar. To do this, switch the engine off again after a short running time.
- > Note that the chain and the guide bar may be hot.

Changing and adjusting the knives

ATTENTION

Damage due to blunt knives

Regularly check the cutting edges of the knives

- > Working with blunt knives can damage the knives and the bearing.
- > If necessary, sharpen the knives or replace them.

Suitable tool

- > Use a suitable torque wrench to tighten the knives. Never tighten them with an extension wrench or using a hammer.

EDER Bark Stripper ESG-C

Sharp knives are required for optimal work with the EDER Bark Stripper ESG-C.

i Blunt knives can be sharpened manually using normal grinding wheels. Cutting edge angle is 40°.

The required knife setting depends on the type of wood to be peeled.

Adjust the knives from case to case.

i The smaller the knife protrusion, the less wood is removed and the smoother the surface becomes.

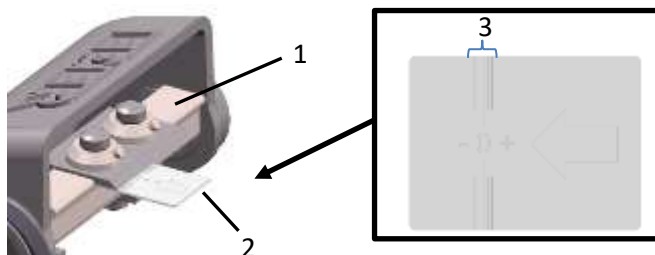


Fig. 5: Knife adjustment

The tungsten carbide pins on the knife discs serve as depth limiters. All four knives must therefore have the same setting and the same distance to the carbide pins. The knives must not protrude beyond the tungsten carbide pins.

All four knives are replaced and adjusted in the same way. Proceed as follows for each knife:

- > Loosen the Allen screw of the knife with a 6 mm Allen wrench.

- > Replace the knife if necessary.
- > Push the setting gauge (2 – Fig. 5) under the knife in the direction of the arrow up to the peeling cylinder (1 – Fig. 5).
- > Push the knife back or forward until the cutting edge touches the zero mark.

If the device cuts too deeply or even chops:

- > Move the knife in negative direction.

If the cutting depth is too shallow:

- > Move the knife in positive direction.

Attention: The cutting edge of the knife must be within the marked area (3 – Fig.5).

- > The tungsten carbide pin on the knife disc must always be pointed forward, towards the cutting edge.
- > Retighten the Allen screw of the knife.

Tightening torque: 35 Nm

EDER Flat Planer EPH-C / EDER Curved Planer ERH-C

Sharp knives are required for optimal work with the EDER Flat Planer EPH-C and the EDER Curved Planer ERH-C.



Blunt knives can be sharpened manually using normal grinding wheels. Cutting edge angle is 40°.

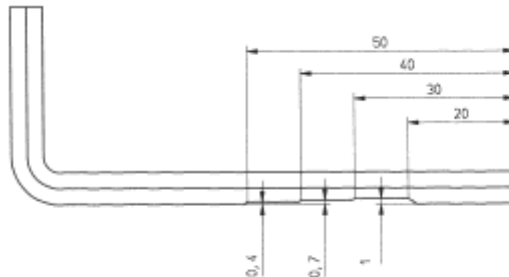


Fig. 6: Allen wrench with notches

To adjust the knives, you need the 6 mm Allen wrench. This key has notches for three settings of the knives: 0.4 mm, 0.7 mm and 1 mm.

The required knife setting depends on the type of wood to be peeled.

Adjust the knives from case to case.



The smaller the knife protrusion, the less wood is removed and the smoother the surface becomes.

All knives are changed and adjusted in the same way.

You can set the cutting depth to 0.4 mm, 0.7 mm or 1 mm with the supplied Allen wrench.

The knives must not protrude more than 1 mm beyond the guide plate.

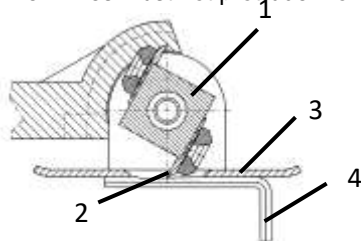


Fig. 7: Knife adjustment

Proceed as follows for each knife:

- > Loosen the Allen screw of the knife with a 6 mm Allen wrench.
- > Replace the knife (2 – Fig.7) if necessary.
- > Turn the cylinder (1 – Fig.7) so that the knife protrudes at maximum through the guide plate (3 – Fig.7).
- > Place the Allen wrench (4 – Fig.7) on the guide plate so that the notch with the desired cutting depth is under the knife.
- > Move the knife so that the cutting edge touches the Allen wrench at the point with the desired cutting depth.
- > Retighten the Allen screw of the knife.

Tightening torque: 35 Nm

EDER Contour Planer EKH-C

Sharp knives are required for optimal work with the EDER Contour Planer EKH-C.



Blunt knives can be sharpened manually using normal grinding wheels. Cutting edge angle is 40°.

For adjustment you need the supplied Allen wrench and the knife gauge.

On the knife gauge there are notches with which you can adjust the knives to 0.2 mm, 0.4 mm and 0.6 mm cutting depth.

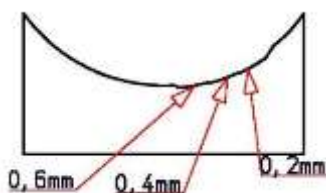


Fig. 8: Cutting depths on the knife gauge



The smaller the knife protrusion, the less wood is removed and the smoother the surface becomes.

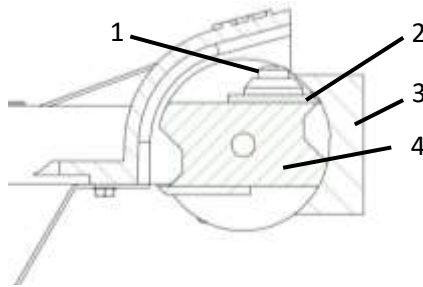


Fig. 9 Knife adjustment

- > Loosen the knife screw (1 - Fig.9).
- > Push the knife (2 – Fig.9) all the way back.
- > Place the knife gauge (3 – Fig.9) on the cylinder (4 – Fig.9) so that it rests on the two bearing surfaces of the cylinder at the top and bottom.
- > Push the knife onto the knife gauge until the desired setting height (0.2 mm, 0.4 mm, 0.6 mm) is reached.
- > Retighten the knife screw. Tightening torque: 35 Nm

EDER Groove Cutter ENF-C

Sharp knives are required for optimal work with the EDER groove cutter ENF-C.

Up to three knives can be fitted to vary the cutting width.

- > Loosen the nut and put the desired number of knives on the shaft.
- > The knives can be resharpened several times.
- > Put the washer and the nut on the shaft
- > Tighten the nut again to 35Nm.

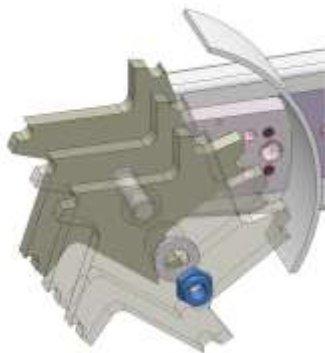


Fig. 10: Replacing knives on the groove cutter

ATTENTION

- > Replace the clamping nut after each disassembly!

EDER Wire Brush ERB-C Changing the wire brush



Fig. 11: Changing the wire brush

- > Unscrew the drive sprocket using the pin wrench.
- > Unscrew the *short bearing shaft* and the *long bearing shaft*.
- > Remove the wire brush from the housing and loosen the locking plate by bending back its bent lug so that the grooved locknut can turn freely.

- > Using the wrench, unscrew the grooved locknuts. The wire brush can then be pushed off the shaft.
- > When reassembling, make sure that the locknuts are firmly seated (35Nm) and bend one lug of the locking plate back into the groove of the locknut.
- > Remount the short and long bearing shafts and tighten them. Tightening torque: 35 Nm
- > Screw the drive sprocket back on and tighten it using the pin wrench.

EDER Bark Beetle Cutter EBF-C

Sharp knives are required for optimal work with the EDER Bark Beetle Cutter EBF-C.



Blunt knives can be sharpened manually using normal grinding wheels.

Replacing knives

- > Unscrew the drive sprocket using the pin wrench.
- > Unscrew the *short bearing shaft* and the *long bearing shaft*.
- > Remove the shaft from the housing and loosen the locking plate by bending back its bent lug so that the grooved locknut can turn freely.
- > Using the wrench, loosen the grooved locknut. The knives can then be pushed off the shaft.
- > When reassembling, make sure that the locknuts are firmly seated (35Nm) and bend one lug of the locking plate back into the groove of the locknut.
- > Remount the short and long bearing shafts and tighten them. Tightening torque: 35 Nm
- > Screw the drive sprocket back on

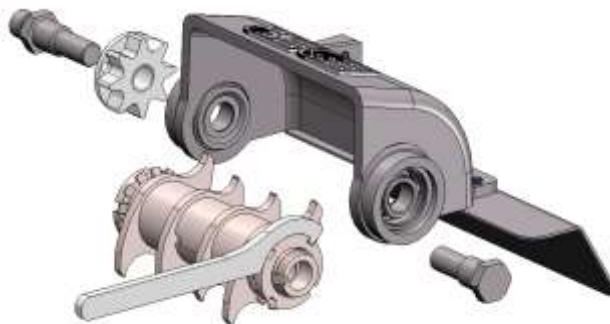


Fig. 12: Replacing knives

Cleaning

WARNING

Danger during maintenance, repair and cleaning work with the drive motor running!

Before carrying out maintenance, repair and cleaning work, switch off the drive motor and secure the device against being switched on again.

To work safely, you must clean the device after each use. In case of heavy use, also during work if necessary.

- > Remove all wood debris, chips and other dirt.
- > Use a brush to clean the attachments.
- > Be sure to keep the air slots on your drive motor clear. While working, accessories can become slightly sticky due to the presence of resin and chips.

Maintenance

WARNING

Danger during maintenance, repair and cleaning work with the drive motor running!

Before carrying out maintenance, repair and cleaning work, switch off the drive motor and secure the device against being switched on again.

Danger from changes to the device!

- > Only carry out the maintenance and repair work described in this manual.
- > Do not make any changes to the device.
- > Contact Eder Maschinenbau GmbH or authorised workshops for work that goes beyond the work described in this manual.
- > Do not adjust the bar, chain or knives when the engine is running. The chain must always be tensioned properly.
- > Only use original spare parts. These can be ordered directly from Eder Maschinenbau GmbH or from your dealer (see back page for address).

Decommissioning and disposal

If the attachment is no longer fit for use and is to be scrapped, you must deactivate and dismantle it, i.e. you must bring the device into a state in which it can no longer be used for the purposes for which it was designed.

Faults

If faults occur, switch off the engine immediately. Eliminate the fault or have the device repaired by a specialist workshop before restarting it.

You must comply with the safety regulations for all adjustment, cleaning, maintenance and repair work.

Technical data

Technical data	ESG -C	EPH -C	ERH -C	EKH -C	ERB -C	ENF -C	EBF -C
Weight [kg]	2.2	2.4	2.8	2.7	2.8	1.8	2.7
Number of knives	4	4	6	4	–	1-3	4
Working width [mm]	120	120	120	120	100	10-30	90
Sound pressure level L_{peq} dB (A)	110	110	110	110	110	110	110
Sound power level L_w dB (A)	119	119	119	119	119	119	119
Vibration value ahv, eq measured: Handle tube [m/s ²]	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Vibration value ahv, eq measured: Operating handle [m/s ²]	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Chain	Without cutters						

Accessories and spare parts

Unsuitable accessories, consumables and spare parts can impair the function and safety and have the following consequences:

- Danger to persons
 - Damage to the motorised handheld device
 - Malfunctions of the motorized handheld device
 - Failure of the motorised handheld device
- > Only use original spare parts, accessories and consumables.
- > Only use technically perfect accessories and original spare parts.

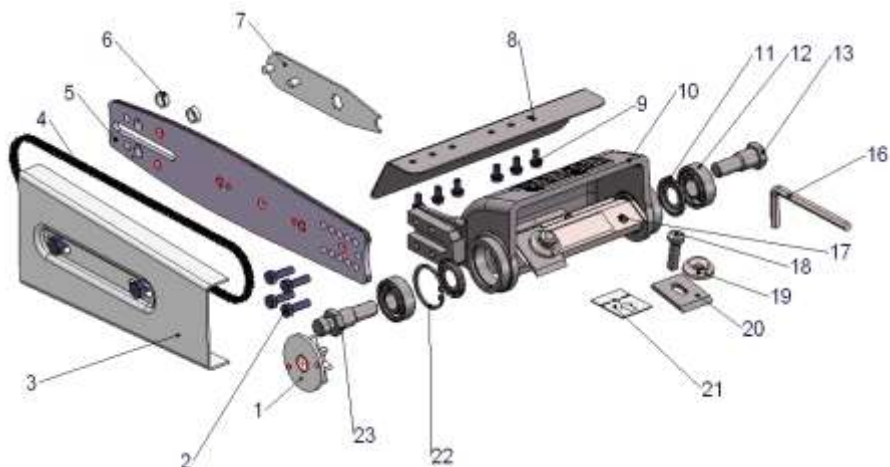
Grooving knife for bark beetle control

For the Eder bark stripper ESG-C we offer the **Bavarian Forest National Park** grooving knives for carving the bark of tree trunks in order to destroy the habitat of bark beetles. The knives can be replaced quickly. For more information, see: www.eder-maschinbau.de



Bavarian Forest National Park grooving knives
Art. Nr.029504 (contains 4 knives)

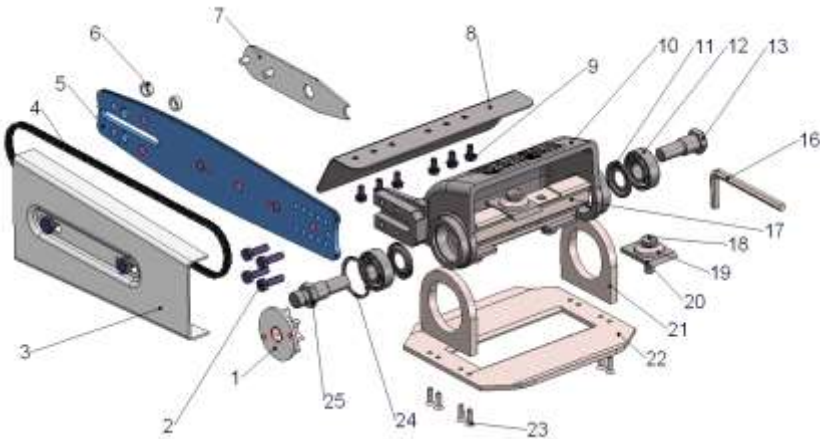
EDER Bark Stripper ESG



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	10	400101	Housing
01	400111	Drive sprocket .325" (*)	11	021600	Sealing ring (2x)
02	210115	Screw (4x)	12	021500	Deep groove ball bearing (2x)
03	400102	Protective plate	13	021300	Short bearing bolt
04	400104	Chain 3/8 (*)	16	021200	Allen wrench
04	400105	Chain .325" (*)	17	020300	Cylinder
05	400131	Guide bar 12mm (*)	18	021100	Knife screw (4x)
05	400132	Guide bar 8mm (*)	19	021000	Knife disc (4x)
06	400120	Stud adapter 9mm (*)	20	020900	Knife (4x)
06	400121	Stud adapter 10mm (*)	21	021900	Setting gauge
07	400150	Chain drive tool	22	021700	Circlip (2x)
08	020500	Protective plate	23	021400	Long bearing bolt
09	021800	Screw (6x)			

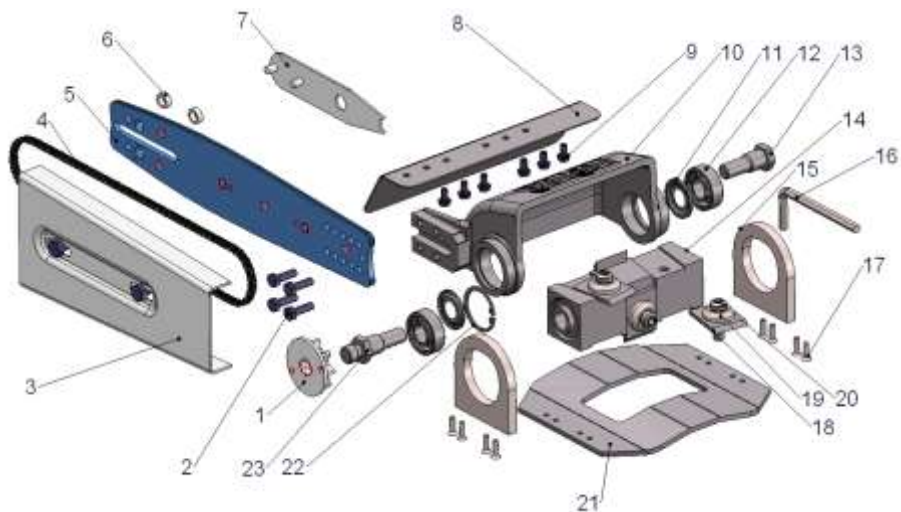
EDER Flat Planer EPH



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	11	021600	Sealing ring (2x)
01	400111	Drive sprocket .325" (*)	12	021500	Deep groove ball bearing (2x)
02	210115	Screw (4x)	13	021300	Short bearing bolt
03	400102	Protective plate	16	062000	Allen wrench
04	400104	Chain 3/8 (*)	17	020310	Cylinder
04	400105	Chain .325" (*)	18	021100	Knife screw (4x)
05	400131	Guide bar 12mm (*)	19	061400	Knife disc (4x)
05	400132	Guide bar 8mm (*)	20	020900	Knife (4x)
06	400120	Stud adapter 9mm (*)	21	060700	Guide plate suspension (2x)
06	400121	Stud adapter 10mm (*)	22	061900	Guide plate
07	400150	Chain drive tool	23	060600	Screw (8x)
08	020500	Protective plate	24	021700	Circlip (2x)
09	021800	Screw (6x)	25	021400	Long bearing bolt
10	400101	Housing			

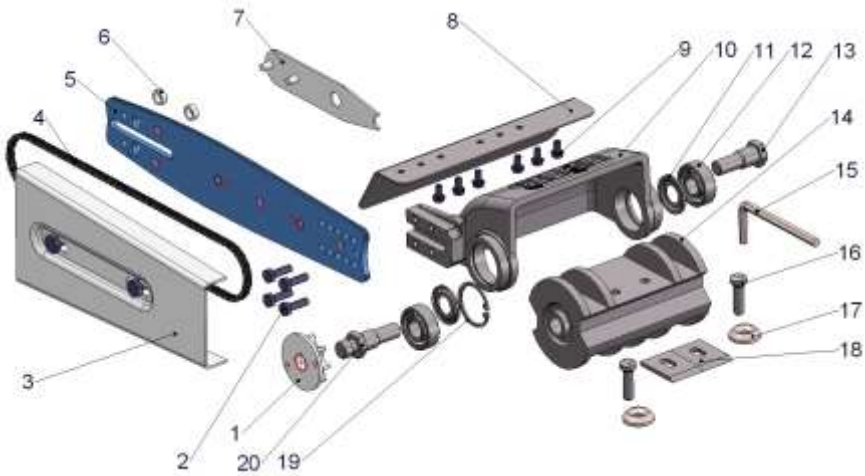
EDER Curved Planer ERH



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	11	021600	Sealing ring (2x)
01	400111	Drive sprocket .325" (*)	12	021500	Deep groove ball bearing (2x)
02	210115	Screw (4x)	13	021300	Short bearing bolt
03	400102	Protective plate	14	071600	Cylinder
04	400104	Chain 3/8 (*)	15	070700	Guide plate suspension (2x)
04	400105	Chain .325" (*)	16	062000	Allen wrench
05	400131	Guide bar 12mm (*)	17	060600	Screw (8x)
05	400132	Guide bar 8mm (*)	18	020900	Knife (6x)
06	400120	Stud adapter 9mm (*)	19	061400	Knife disc (6x)
06	400121	Stud adapter 10mm (*)	20	021100	Knife screw (6x)
07	400150	Chain drive tool	21	071900	Guide plate
08	020500	Protective plate	22	021700	Cirdlip (2x)
09	021800	Screw (6x)	23	021400	Long bearing bolt
10	400101	Housing			

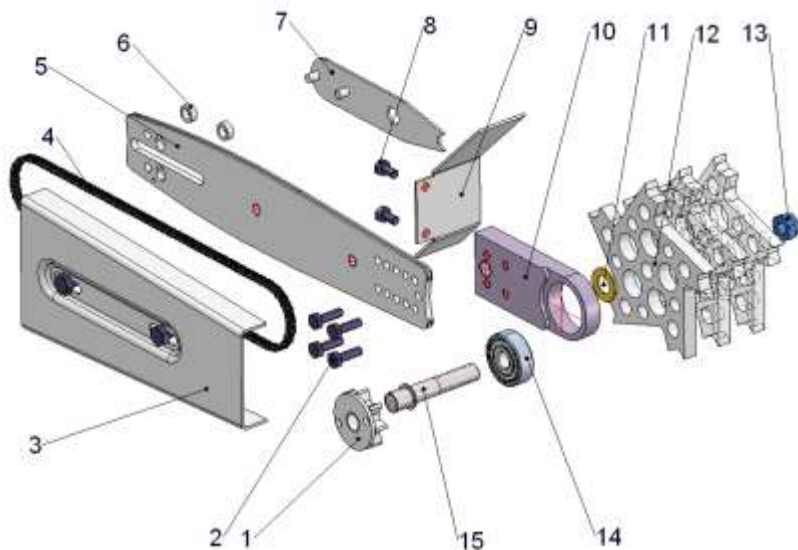
EDER Contour Planer EKH



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	10	400101	Housing
01	400111	Drive sprocket .325" (*)	11	021600	Sealing ring (2x)
02	210115	Screw (4x)	12	021500	Deep groove ball bearing (2x)
03	400102	Protective plate	13	021300	Short bearing bolt
04	400104	Chain 3/8 (*)	14	190300	Cylinder
04	400105	Chain .325" (*)	15	021200	Allen wrench
05	400131	Guide bar 12mm (*)	16	021100	Knife screw (4x)
05	400132	Guide bar 8mm (*)	17	061400	Knife disc (4x)
06	400120	Stud adapter 9mm (*)	18	020900	Knife (4x)
06	400121	Stud adapter 10mm (*)	19	021700	Circlip (2x)
07	400150	Chain drive tool	20	021400	Long bearing bolt
08	020500	Protective plate			
09	021800	Screw (6x)			

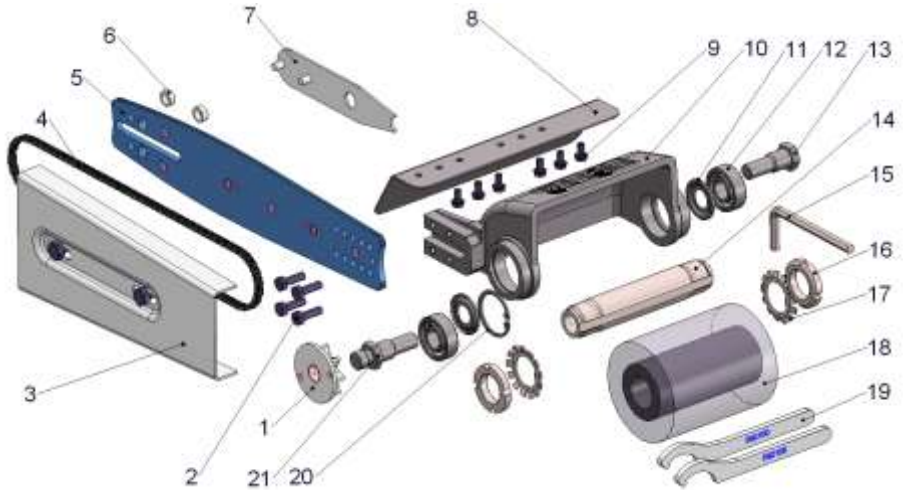
EDER Groove Cutter ENF



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	08	400809	Screw (2x)
01	400111	Drive sprocket .325" (*)	09	400803	Protective plate
02	210115	Screw (4x)	10	400801	Housing
03	400102	Protective plate	11	400807	Washer
04	400104	Chain 3/8 (*)	12	400805	Knife (max. 3)
04	400105	Chain .325" (*)	13	400808	Locking nut
05	400131	Guide bar 12mm (*)	14	400806	Bearing
05	400132	Guide bar 8mm (*)	15	400802	Shaft
06	400120	Stud adapter 9mm (*)			
06	400121	Stud adapter 10mm (*)			
07	400150	Chain drive tool			

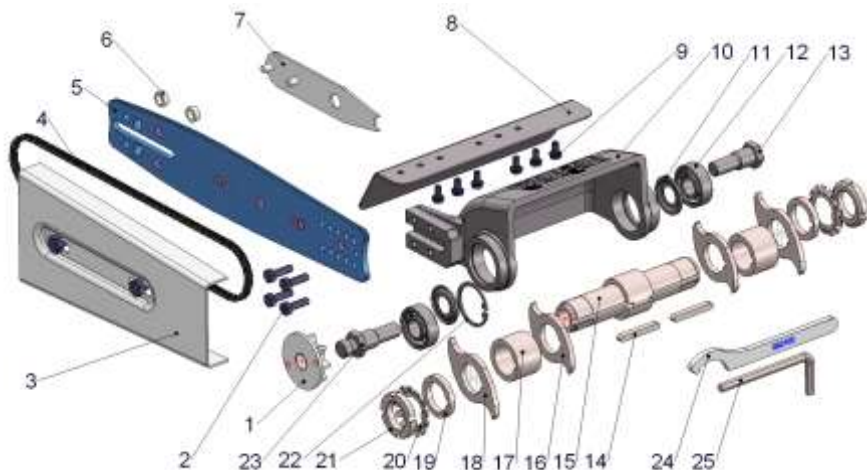
EDER Wire Brush ERB



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	10	400101	Housing
01	400111	Drive sprocket .325" (*)	11	021600	Sealing ring (2x)
02	210115	Screw (4x)	12	021500	Deep groove ball bearing (2x)
03	400102	Protective plate	13	021300	Short bearing bolt
04	400104	Chain 3/8 (*)	14	150600	Shaft
04	400105	Chain .325" (*)	15	021200	Allen wrench
05	400131	Guide bar 12mm (*)	16	150800	Shaft nut (2x)
05	400132	Guide bar 8mm (*)	17	150400	Locking plate (2x)
06	400120	Stud adapter 9mm (*)	18	150500	Wire brush
06	400121	Stud adapter 10mm (*)	19	150700	Groove nut wrench (2x)
07	400150	Chain drive tool	20	021700	Circlip (2x)
08	020500	Protective plate	21	021400	Long bearing bolt
09	021800	Screw (6x)			

EDER Bark Beetle Cutter EBF



(*Depending on the chainsaw)

No.	Order no.	Description	No.	Order no.	Description
01	400110	Drive sprocket 3/8 (*)	11	021600	Sealing ring (2x)
01	400111	Drive sprocket .325" (*)	12	021500	Deep groove ball bearing (2x)
02	210115	Screw (4x)	13	021300	Short bearing bolt
03	400102	Protective plate	14	092000	Feather key (2x)
04	400104	Chain 3/8 (*)	15	091600	Cylinder
04	400105	Chain .325" (*)	16	091500	Inner knife (2x)
05	400131	Guide bar 12mm (*)	17	090600	Spacer (2x)
05	400132	Guide bar 8mm (*)	18	091900	Outer knife (2x)
06	400120	Stud adapter 9mm (*)	19	091400	Spacer washer (2x)
06	400121	Stud adapter 10mm (*)	20	301200	Locking plate (2x)
07	400150	Chain drive tool	21	301300	Shaft nut (2x)
08	020500	Protective plate	22	021700	Circlip (2x)
09	021800	Screw (6x)	23	021400	Long bearing bolt
10	400101	Housing	24	092100	Groove nut wrench
			25	021200	Allen wrench

Declaration of conformity

The manufacturer: Eder Mechanical Engineering GmbH
Schweigerstraße 6
38302 Wolfenbüttel
Germany

Herewith declares that the machine designated below complies with the relevant essential safety and health requirements of the EC Machinery Directive 2006/42/EC due to its design and construction.

Main designation:	EDER Bark Stripper ESG-C	Serial number: ESG-C001000
Alternative accessories:	EDER Flat Planer EPH-C	Serial number: EPH-C001000
	EDER Curved Planer ERH-C	Serial number: ERH-C001000
	EDER Contour Planer EKH-C	Serial number: EKH-C001000
	EDER Wire Brush ERB-C	Serial number: ERB-C001000
	EDER Groove Cutter ENF-C	Serial number: ENF-C001000
	EDER Bark Beetle Cutter EBF-C	Serial number: EBF-C001000

and following

The following standards were used to implement the safety and health requirements specified in the EC directives:

1. EN ISO 12100, Safety of machinery - General principles for design, risk assessment and risk reduction
2. Centrifugal force test according to DIN EN 847-1, Machine tools for woodworking - Safety requirements - Part 1: Milling and planing tools, circular saw blades

Internal measures have been taken to ensure that the serial production devices always meet the requirements of the current EC directives and the standards applied.

Authorized person for the technical documentation: Michael Pögel

Wolfenbüttel, 10.08.2020



Ulrich Schrader, Managing Director

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