



Tiefenbegrenzer-Schleiferl

Depth limiter grinder | Meuleuse limiteur de profondeur

EN

Operating manual

Sharpening tool for standard saw chains

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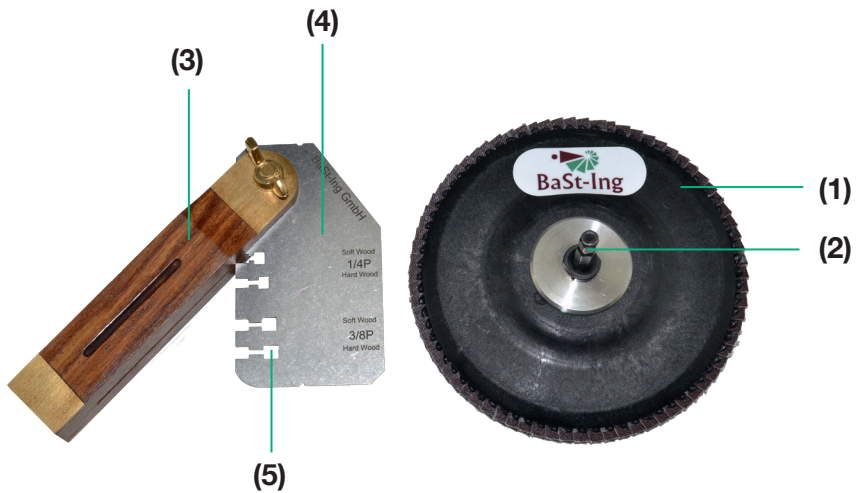
1. Technical specifications

Designation	Depth limiter grinder
Mass (kg)	0.3
Thick bevelling plate, new condition (mm)	1
Min. thickness bevelling plate (mm)	0.85
Length (mm)	125
Width (mm)	135
Height (mm)	30
Max. speed (rpm)	4,000
Hand arm vibration*	< 2.5m/s ²

Attention: The vibration emission during actual use of the grinder can deviate from the specified emission value depending on how the tool is used.

2.

Product and service description



(1)	Sanding pad	The bottom of the sanding pad is covered with sandpaper and reduces the depth limiter to the desired height by machining.
(2)	Drive shaft	The sanding pad is driven by a 6.3 mm hexagon (1/4" bit holder). The drive shaft must be positively connected to a suitable drive device. The direction of rotation is "clockwise".
(3)	Folding handle	The bevel is held by the wooden handle. At the same time, the wood serves as transport protection for the cradle plate.
(4)	Cradle plate	The cradle plate rests on the saw chain and only allows a certain working depth of the grinding plate. The cradle plate is subject to wear and tear and must be replaced from time to time.
(5)	Depth gauge opening	The depth gauges protrude from the depth gauge opening. The material that protrudes over the cradle plate is removed by the sanding pad.

3. Intended use

The intended use of the „depth limiter grinder“ (Tiefenbegrenzer-Schleiferl) is resetting the depth limiter/scrapper on standard saw chains for woodworking.

The depth limiter grinder requires skilled use of screwdrivers and the wearing of appropriate protective equipment.

The only drive for the depth limiter grinder are cordless impact wrenches with a 1/4" hexagon socket (6.35 mm) and a speed of up to 4,000 rpm. Operation with an angle grinder is not permitted (wear on the sheet increases disproportionately). Operation with cordless drills is not permitted as there is insufficient control over the sanding pad.

If the depth limiter grinder is

- not used as intended
- overloaded

the manufacturer assumes no liability for any resulting damage!

4. Safety instructions

Read all safety warnings and instructions.

Failure to comply with the safety instructions and instructions can result in electric shock, fire and/or cause serious injuries!



Danger! Incorrectly machined depth gauges can

- cause serious injuries or even death.
- significantly reduce the saw performance of the chainsaw.
- considerably increase the wear/consumption of the chainsaw and the cutting equipment.
- seriously impair chain saw guidance.



Before commissioning, the depth limiter grinder must be checked for possible damage and suitability for use must be ensured.



Do not use the system if you are not familiar with it.



Only use the system if you have the physical and mental aptitude.



Wear protective goggles, gloves, a dust mask and flame-retardant clothing when working.



Do not use the depth limiter grinder in a flammable environment.



Do not use in the vicinity of highly flammable material => fire hazard!



Make sure that you are not endangered by dust, sparks, chips, smoke, fog or even noise. Machining processes with grinding discs can generate high concentrations of dust, smoke or even mist. In addition to a health hazard, this can also include a risk of explosion. Always wear extensive protective equipment when grinding:

- Protective gloves
- Safety goggles
- Breathing mask with filter class P2



Prevent long hair, loose clothing and jewelry from coming into contact with the machine and being drawn in. Serious injury can result.



Dust from materials (e.g. metals) and sanding belt dust can be harmful to health. Touching or inhaling the dust can cause allergic reactions and/or respiratory diseases in the user or in the vicinity.



Familiarize yourself with the individual components and how saw chains work.



When sharpening, be very careful not to grind or weaken any drive link of the saw chain. If you weaken the drive links of the saw chain, the chain can break during operation and seriously injure the user.



Guide the grinder so that the angles and dimensions prescribed by the saw chain manufacturer are observed. If necessary, practice with chains that are no longer used on the chainsaw.



Pay attention to the direction arrow when clamping.



Keep all safety information and instructions for future use.



Keep your work area clean and well-lit. Cluttered or dark work areas can lead to accidents.



Do not work with the power tool in potentially explosive environments in which there are flammable liquids, gases or dust. Power tools generate sparks that can ignite the dust or fumes.



Keep children and other people away while using the power tool.



Be careful! Be careful what you are doing and use your common sense to go to work. Do not use the depth limiter grinder when you are tired or under the influence of drugs, alcohol or medication.



Maintain grinding tools with care. Check whether moving parts are working properly and are not jamming, whether parts are broken or damaged in such a way that their function is impaired. Have damaged parts repaired before using the device.



Have your power tool repaired only by qualified personnel and only with original spare parts. This ensures that the safety of the power tool is maintained.



Never touch the running sanding pad. There is a risk of injury.



Make sure that nobody is endangered by flying sparks. Remove combustible materials nearby. Flying sparks occur when grinding metals.



Hold the tool firmly in your hands while working and ensure that you are standing securely.



Secure the chainsaw. A saw held in place with a clamp or vice is more secure than a loosely set chainsaw.



Wait until the depth limiter grinder has come to a standstill before putting it down. The accessory tool can get stuck and lead to loss of control of the power tool.



Read all safety warnings and instructions. Failure to follow the safety instructions and instructions can cause fire, chronic illness and/or serious injury.



Never use a grinding machine that does not work properly or that contains defective components.



Employers should carry out a risk assessment of all grinding processes in order to be able to take the appropriate safety precautions. They should ensure that their employees are adequately trained to perform their duties.

5.

Operation

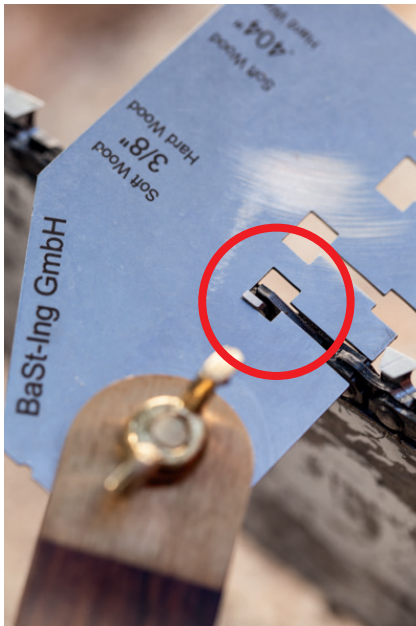


Attention: Read the instruction manual first before using the system.

Please take a moment to familiarize yourself with the device. The safe handling of the grinder requires practice.



Tip: Use old chainsaws to practice that are no longer suitable for use on chainsaws.



Chainsaw

- Secure the chainsaw so that it is securely fastened during the grinding process and you can still pull the chain through with the chain brake released.
 - Position the chainsaw at a height that it is about 50 cm below your shoulder height. This ensures ergonomic processing.
 - Check the chain tension whether it corresponds to the manufacturer's specifications.
 - Determine the size of the chain to be sharpened (chain pitch).
 - Make sure that there are no easily flammable objects nearby and that components are not wetted with fuel.
-

Personal protective equipment

Put on personal protective equipment:

- Safety goggles
 - Breathing mask
 - Working gloves
-

Depth limiter grinder

- Check the device for damage and the condition of the oscillating plate. If necessary, the cradle plate must be replaced. You can find information on this in the section "Maintenance and testing".
- Use the correct bevel for the chain pitch to be sharpened.
- Connect the cordless impact wrench to the drive shaft (2) of the depth limiter grinder.
- Set the direction of rotation of the cordless impact wrench to "clockwise".
- Check whether the sanding pad is idling without an imbalance.
- Assess whether you are predominantly hard wood or soft wood cut.
In the case of "hard wood", the depth gauge is set back a little less.

Repositioning the depth limiter

Operation

- The cordless impact wrench including sanding pad is picked up with the right hand.
 - The bevel is held by the wooden handle with the left hand, with the bevel sheet folded out and fixed with the wing nut.
-

Attaching the depth limiter grinder to the saw chain

- Place the cradle plate with the correct depth gauge opening (5) on the saw chain. The cradle plate is correctly positioned when
 - the sheet metal is only supported on the top of the tooth and on the chain links.
 - the back of the depth limiter rests against the depth limiter opening (5).
 - the correct depth gauge opening (5) for the chain pitch and the wood to be cut have been selected.
 - For each chain pitch, 2 different depth limiter lengths are entered on the bevel. The “soft wood” variant sets the depth limiter a little deeper (approx. 0.75 mm for 3/8”) and is designed for saw cuts in soft wood. The “hard wood” variant sets the depth limiter a little higher (approx. 0.65 mm for 3/8”) and is designed for saw cuts in hard wood.
-

Repositioning the depth limiter

- Slowly increase the speed of the sanding plate using the cordless screwdriver.
 - Press the sanding pad with your right hand and low pressure against the depth limiter.
 - Carefully grind the depth gauge with the impact wrench until there are no more flying sparks.
Attention: Grinding on the bevel plate for too long increases wear.
 - Move the cordless impact wrench slightly from left to right while grinding.
Note: Excessive contact pressure has the following consequences:
 - The cradle plate wears excessively.
 - The cradle plate heats up.
 - The depth gauge is excessively worn away.
 - Repeat the process for each depth limiter on the saw chain.
-

Check the grinding result

- Check whether the depth limiter is flush with the bevel plate.

6.

Maintenance/testing

Please note the maintenance instructions!



The depth limiter grinder must be visually inspected for damage before each use.

Before commissioning and after each working day:

- **Visual inspection for external damage.**
- **Check whether the sanding pad (1) is completely covered with abrasive.**
- **Check the drive shaft (2) for damage.**

After one working week or 5 grinding processes:

- **Measure the sheet thickness of the depth limiter grinder.**
Check the sheet thickness of the depth limiter grinder regularly.
New condition: 1 mm
Replacement required: 0.85 mm sheet thickness
- **Clean the depth limiter grinder from dirt such as sanding dust.**
Non-corrosive brake and parts cleaners are permitted as cleaning agents, e.g. LIQUI MOLY AIII 3389.
- **When replacing components, only original spare parts may be used.**
Replacement of spare parts is only permitted by trained personnel. Training documents and information on the correct replacement of spare parts are available from the manufacturer.

7.

Replacement of wear parts

The cradle plate and the sanding plate are subject to wear and tear when used. Replace the cradle plate if it is less than 0.85 mm thick. Measure the thickness with suitable aids, such as calipers.

To replace the bevel plate (4), please open the wing nut of the bevel and remove the brass screw. Afterwards, the worn cradle can be removed and a new cradle can be inserted. Use only original parts from BaSt-Ing. Dispose of the worn cradle plate in the recycling center.

To replace the sandpaper, it must be pulled from the backing pad (1) and replaced with a new one. Make sure that the sandpaper is attached concentrically to the backing pad.

Specification of the sanding paper: VSM Ceramics XK870K – grit 120, diameter 115 mm.

8. Render inoperative

If the depth limiter grinder is no longer required, please store it as follows:

- Remove dirt such as sanding dust from the depth limiter grinder. Non-corrosive brake and parts cleaners are permitted as cleaning agents, e.g. LIQUI MOLY AIII 3389.
 - Store the sanding pad (1) dry and in a temperature range of -15°C to +35°C.
 - Harmful influences from moisture, frost and large temperature fluctuations as well as mechanical damage should be avoided.
-

9. Proper disposal

The depth limiter grinder, accessories and packaging should be recycled in an environmentally friendly manner. Do not throw the depth limiter grinder into the household waste. The grinder is made of high quality materials such as steel, brass, wood and plastic.

There are no questionable hazardous substances installed. The built-in materials can be disposed of in a recycling center.

Dispose of the components separately according to their materials. If you have any questions about disposal, the BaSt-Ing team is at your disposal:

Email: info@bast-ing.de | Phone: +49 (0)179/433 79 56

10. Application advice

Customer service answers your questions about repair and maintenance of your product as well as spare parts. Exploded drawings and information on spare parts will be made available to you on request:

Email: info@bast-ing.de | Phone: +49 (0)179/433 79 56

11. Guarantee

For the depth limiter grinder, we guarantee the functionality and freedom from defects of the material for 12 months from the delivery date. This does not extend to the consequences of normal wear and tear, overloading, improper handling or the installation of third-party spare parts.

Damage caused by material or manufacturer defects will be remedied free of charge through replacement delivery or repair.

12. Environmental aspects

The depth limiter grinder is made of high quality materials such as aluminum and stainless steel.

Use the depth limiter grinder for as long as possible and, if necessary, only replace wearing parts in order to save resources.

13. EC Statement of Conformity

The manufacturer: **BaSt-Ing GmbH**
Weipertshausen 13
82541 Münsing/Germany
Phone: +49 (0)179/433 79 56

hereby declares that the following product:

Product name: **Depth limiter grinder**

Built: **from 12/2019**

complies with all relevant provisions of the **Machinery Directive (2006/42/EC)**.

The following harmonised standards were applied:

EN ISO 12100 Safety of Machines – General Design Guidelines
Risk assessment and risk reduction



Weipertshausen, 13.02.2020