



ValFast

EN

Operating manual

Spindle wedge for timber harvest

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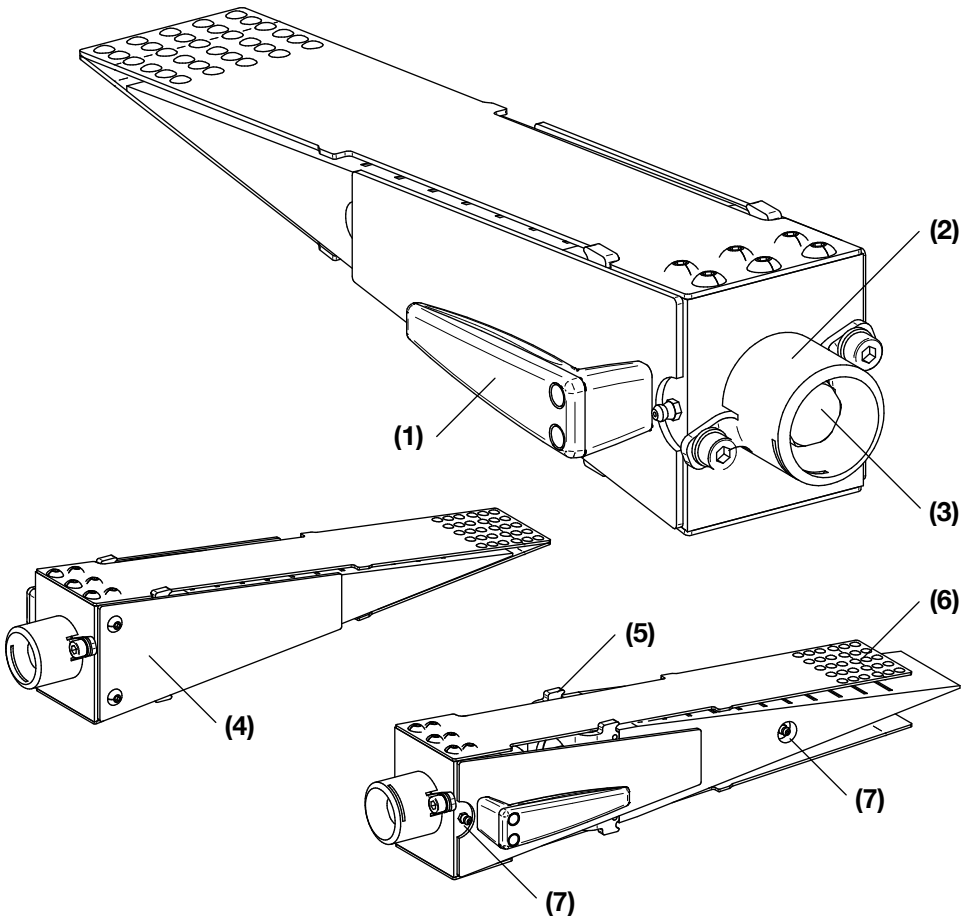
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1. Technical data

Term	ValFast
Max. lifting capacity (to)	26
Mass (kg)	5.0
Length (mm)	460
Width (mm)	180
Height (mm)	103
Lift/Turn (mm)	6
Max torque impact drive (Nm)	1,627
Max torque static (Nm)	200

2. Product description



(1)	Grab handle	(5)	Finger plate
(2)	Attachment pipe for connection with a ValLink	(6)	Holding knobs
(3)	Drive spindle SW24 mm	(7)	Grease nipple
(4)	Side cover		

3. Intended use

The intended use of the ValFast is the harvesting of timbers. Here it is used to lift trees on the side turned away from the fall candle and thus cut the tree in the desired direction. It can also be used to loosen chainsaws.

The ValFast does not replace a winch or rope train. Use it only if you think you would bring the tree down with classic wedges. Strong rear or side catchers cannot be felled with the mechanical spindle wedge, i.e. it can be overloaded or could tear down the fracture bar. Wood weakened by fungal infestation and rot must not be brought down with the ValFast. The fracture bar can break off prematurely or the ValFast cannot press into the wood as usual, as the wood does not bring with it the necessary stability. Use this device only if you are familiar with it.

A crank or battery-powered impact screwdriver can be used as a drive for the ValFast. The maximum torque applied with the ratchet is 200 Nm. Impact wrenches can be used up to a hard torque value of 1,627 Nm.

If the ValFast

- not used as intended
- overloaded
- wrong or not serviced

the manufacturer assumes no liability for any damage caused!

4. Safety advice

In the event of disregard for safety warnings, serious injuries can result in death!



Wear a head protection combination, face protection, gloves, cut protection clothing and all other protective clothing prescribed for chainsaw work.



When working with the ValFast, always observe the current UVV guidelines for chainsaws and forestry work!



When working with the ValFast, **generally** use plastic or aluminium wedges as a fuse. When using the ValFast, always slide the wedges into the saw joint for safety.



If the ValFast is damaged, the ValFast must no longer be used.



If the lifting force is not sufficient to bring the tree down, use additional wedges, ram jacks or a cable winch.



The maximum lifting capacity of the ValFast is 26 t.



The ValFast does not replace a winch or cable. Only use this device if this tree could also be wedged over. Pronounced back or side hangers must not be felled with the ValFast, as this can be overloaded. Do not use this device unless you are familiar with it.



Incorrect operation can cause serious damage to health and even death. The ValFast may only be used by qualified persons with appropriate training. We generally recommend: Attend a course on the use of felling aids.



Please note that there is a risk of pinching if the wedge is retracted and extended quickly. The ValFast may only be used with intact safety equipment!



When using the ValFast in combination with a cordless impact wrench, the safety instructions and operating instructions of the impact wrench manufacturer must also be observed.

At the very least, however, it is important to note:



Protect your accumulator and impact screwdriver from moisture, heat, fire and direct sunlight.



Use the accumulator only in the temperature range from -10°C to + 50°C except the manufacturer will provide other information.



Store your impact screwdriver and battery in enclosed and dry spaces in a safe place.



Store your battery for optimal lifespan and low self-discharge at temperatures ranging from +10°C to + 20°C.



If you don't have your battery for a long time, it should be stored at about 30 %. Recharge your battery just before your device is first used.



If you have a reserve battery, you should not store it unused, but use it alternately with your other battery.



Don't open a battery or use a broken or deformed battery. If your battery is defective, it must be replaced.



If you have a reserve battery, you should not store it unused, but use it alternately with your other battery.



Note the maximum permitted exposure to hand-arm vibration.

5. Guarantee

For the ValFast, we guarantee the function and accuracy of the material from 12 months from the date of delivery. This does not cover the consequences of common wear and tear, overload, improper treatment or the installation of foreign spare parts.

A warranty can only be accepted if the device is not disassembled for testing. Damage caused by material or manufacturer errors is removed free of charge through replacement delivery or repair.

6. Operation



Tip: Read the operating instructions first before using the system!

Before the first application, grease the wedge, including the lubricating nodes in the plastic wedge!

The clues apply to the case of regularly-shaped trees. The content of this chapter is not to show and explain different forgery techniques (foreheads, backsupporters...) etc.

The content of this guide is how the ValFast can be applied to a shifted support band cut. In principle, a technical forgery technique appropriate to the tree should be applied!

Felling cut technique: High shifted support band cut

1. Preparation of the tree

Before the saw work on the tree can begin, the usual control of the tree must be carried out.

- How strong does the tree hang in a certain direction?
- Are there any visual sloth spots?
- Are loose branches in the crown of trees?
- Is the tree chopped up in other trees by means of the branches?
- ...

Afterwards, moss, strong root start-ups and thick layers of bark are removed in the area of the fall.

2. Preparing the felling cut

Saw a directional cut into the tree, similar as during work with regular wedges.

3. 60 % reduction of the tree

After the directional cut is applied, the felling cut is executed, whereby the current one is completed only 60 %. The fracture bar must be cut in this 60 % already final. Strong root start-ups or thick bark must be cut off before, as they can be easily squeezed off with the ValFast.

Below is the 60 % finished cut visible.



This felling cut is then extended a few millimeters, evenly upwards and downwards.
The following image shows this expansion.

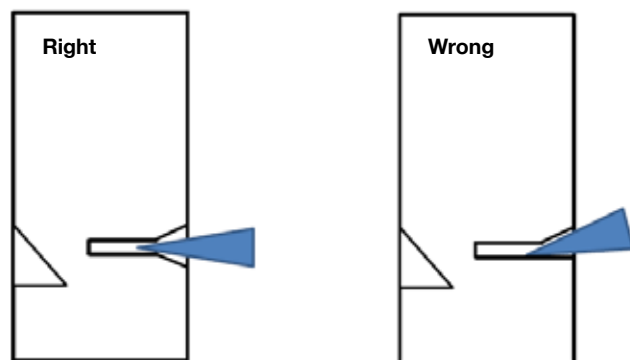
This extension is the easiest to carry out if the chainsaw is pulled out a bit, then slightly tilted forward.



You should not saw the extension similar to the direction cut, means from the outside of the tree. This would cause unsimilar extension.



Warning: If the cut is not extended similar upwards and downwards it can happen that the spindle of the ValFast bends.



In addition, assure that the upper and lower notch-sheet is equally in the tree, otherwise it can also lead to a bending of the shaft.

4. Attaching the ValFast

The fully drive-in wedge is now inserted into the felling cut by hand. It is important that enough notches are in the wood claw up. They prevent the wedge from pushing out of the wood while turning the spindle. To do this, there must be enough notches in the wood according to the necessary lifting force, but at least the first three rows.

Now turn the ValFast until it sits firmly. The pretensing of the wedge prevents, on the one hand, a clamping of the saw when cutting the final support band. Secondly, it ensures that the ValFast is set up correctly and does not push itself easily out of the wood.

An aluminum or plastic wedge is used to secure it.

5. Crossing the support band

Then saw fall cut with a offset in height to the first cut. Due to the height offset, it is assured that the chainsaw does not get in contact with the steel parts of the ValFast. Do not cut directly above or below the ValFast!

6. Lifting the tree by means of ValFast

By further turning the ValFast apart, the tree is raised until it finally falls. The backup wedge must be constantly pushed by hand.

The wedge should only be turned apart until the maximum disbursements are reached. If the debit length has been reached, but the tree has not yet fallen over, it is not allowed to continue to rotate at the ValFast. The tree must be brought down by additional wedges.

Alternatively, the tree can be secured by aluminum or plastic wedges. Afterwards, the ValFast is solved by turning together. It can now be pushed in further to reach a higher lift height. It is important to ensure that the plastic wedge does not contact the fracture bar of the tree!

Supporting the ValFast in the hinge is only permitted if the tree can no longer fall in the opposite direction to the felling notch. This is the case, for example, if it has got stuck in neighboring trees at a steep incline to the direction of felling.

As soon as the tree starts to fall independently, retreat quickly and safely to reach a place of rest! When turning back the wedge, make sure to avoid squeezing or pinching the moving parts.

7. Maintenance/Examination

Please note the maintenance instructions:



The ValFast must undergo a visual inspection for damage before each use.

Before commissioning and after each working day:

- **Lubrication of spindle storage:**
1–2 pumps of grease
- **Lubrication of thread spindle:**
The thread spindle are lubricated via the lateral lubricant in the plastic wedge. Here in the intertracted state of the ValFast fat shocks until fat leaks at the bore in the wedge surface.
- **Lubrication of the plastic weasal area:**
Drive the ValFast completely wet the plastic wedge surface at the top and bottom with fat.
- **Visual inspection for external damage.**
- **Check the spindle for cracks.**
- **Check the bump plates for damage/cracks.**

After a working week:

- **Clean the spindle and storage.**
- **Check the spindle for cracks or spindle play.**
- **Check the wear and tear state of axial storage.**
- **Regularly remove the dirt at ValFast.**

8. Malfunction and repair

When replacing components, only original spare parts will be used. Replacement of spare parts is only possible through owed personal actions. Learning documents and information on the correct replacement of spare parts are available when you buy.

Wedge tip damaged

Proceed as follows to replace the plastic wedge tip:

- Cleaning the felling wedge.
- Unscrew the wedge tip from the felling wedge – to do this, pull the studded sheets apart.
- Remove the screwed wood screws from the plastic on the side.
- Knock the two spring pins out of the chisel tip.
- Assemble the chisel tip in reverse order.

Wedge tip moves stiffly

- The spindle was bent slightly. To replace the spindle, dismantle the side cover with the serial number and remove the locking ring from the aluminum bearing block.

9. Proper disposal

Dispose of the ValFast properly, e.g. recycling center. Remove the side covers and the chisel tip.
The plastic parts (polyethylene) and the metal parts can now be recycled depending on the material.

There are no questionable hazardous substances installed.

10. Customer service and application advice

Customer service answers your questions about the operation, maintenance, repair and disposal of the product.

Email: info@bast-ing.de

Phone: +49 (0)179/433 79 56

11. 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: **ValFast**

Built: **from 01/2017**

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, 29.01.2019

01/2019
Subject to technical changes.