



MiniFix

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1. General information

These operating instructions are intended for all persons involved in the following activities:
Installation, expansion, commissioning, operation, maintenance.

2. Safety advice

The operating instructions are part of the MiniFix. Failure to follow the operating instructions and the following safety instructions can result in damage to the device and even personal injury.

- Follow the operating instructions completely.
- The applicable documents must be taken into account and observed at all times.
- Keep the operating instructions accessible at all times.
- The operating instructions describe the structure of the MiniFix and impart knowledge about the proper operation and maintenance.
- Observe the regulations and documentation of third-party manufacturers for third-party devices.

Intended Use

The MiniFix is a powered impact wrench felling wedge. The MiniFix may only be operated by one person. Operational safety is only guaranteed if the MiniFix is used properly. Intended use includes:

- Observance of all instructions in the operating manual.
- Observance of all safety instructions.
- Compliance with inspection and maintenance work.



Any other use or use that goes beyond this is considered to be improper and excludes any liability on the part of the manufacturer.

Functional description

The MiniFix is powered by a powerful impact wrench.

Typical applications

- Fell trees with little backhang quickly and safely.
- Free chainsaw swords stuck in tree trunks.

Requirements

Requirements for the operator

Safety conscious working:

- Before starting work, the staff is aware of the dangers of handling the MiniFix to point out.
- If dangers arise when using the MiniFix that are not covered by these operating instructions are covered or parts of the text are incomprehensible, please inform the manufacturer.

Personnel qualification:

The personnel for operation, maintenance, inspection and assembly must do the following meet minimum requirements:

- Can carry out the work within the scope of these operating instructions in a safe manner.
- Understands how the MiniFix works and can recognize the hazards of the work and avoid.
- Can implement the information in the operating instructions and in the other applicable documents.

Warranty:

- During the warranty period, the manufacturer's approval must be obtained before any conversion, repair work or changes are made.
- Only use original parts or parts approved by the manufacturer.

Staff requirements

Before commissioning, all devices and operating elements as well as their function must be known and checked. During the entire operation it must be ensured that the operational conditions correspond to the use of the machine.

- Read the operating instructions and observe the information.
- Observe markings and keep them legible, e.g. B. type plate, media connections, etc.
- Only carry out work on the MiniFix when it is at a standstill and de-energised.
- The MiniFix must be separated from the impact wrench for all assembly and maintenance work.

Personal protective equipment requirements

The noise generated during operation of the MiniFix can pose a hazard over time represent – wear hearing protection! When drilling, parts can be ejected through the MiniFix – wear protective goggles and safety shoes!

Improper use

The following uses are not permitted:

- Bringing in objects that severely impede movement.
- Operating the MiniFix on unsuitable ground conditions and in unsuitable lighting conditions.
- Using the MiniFix contrary to the intended use.
- The dismantling, bridging or decommissioning of safety and protective devices.
- Poor maintenance, repair and servicing measures.
- Repair, cleaning and maintenance work without switching off the MiniFix and physically disconnecting the power supply.
- Unauthorized structural changes as well as additions and conversions without prior consultation with the manufacturer.
- Operate with an obvious fault.
- Non-observance of personnel qualifications.

Dangers from non-observance of the safety instructions



Failure to follow the safety instructions can endanger people.

Only use approved components

Design changes to the MiniFix or incorrect spare parts can cause malfunctions. These lead to property damage or personal injury.

- Do not convert or modify the MiniFix.
- Only use original spare parts.

Working on the MiniFix

The impact wrench is live during operation. All work should only be carried out in a voltage-free state.



Danger from reaching in and being caught

During operation there is a danger to persons who reach into the drilling area or who are wearing loose clothing.

- The work area must be freely visible.
- Clothing must be close-fitting – pay attention to shoelaces.
- Only hold the MiniFix by the handle provided.

Danger from ejected objects

During operation, wood material can be thrown out by the MiniFix.

- Before starting work: Make sure that nobody is in the immediate vicinity of the MiniFix.
- Wear safety goggles or face shield.

Noise hazards

During operation, the operator is exposed to increased noise emissions – to wear ear protection.

3. Technical data

Operating and environmental conditions:

- Non slippery surface
- Suitable ground conditions
- Ambient temperature +5 °C to +40 °C
- Humidity 30–80 %
- Atmosphere non-corrosive
- Outdoor application

Term	MiniFix
Mass solo, without drive unit (kg)	1.4
Length (mm)	280
Spindle outside diameter (mm)	35
Max torque impact wrench (Nm)	1630
Sound pressure level (dB)	95.2
Sound power level (dB)	106.2
Tightening of bolts and nuts max size (m/s²)	18.9
Uncertainty K (m/s²)	1.5
Max. torque of the impact wrench SW24 (Nm)	1630
Max. torque of the impact wrench SW10 (Nm)	700

Notice

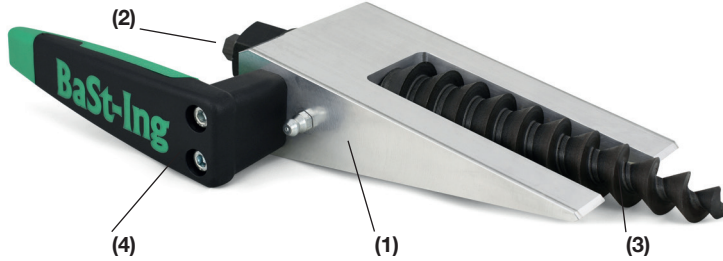
The vibration emission level given in these instructions has been measured according to a measurement method standardized in EN 62841 and can be used to compare one power tool with another. It is also suitable for a preliminary assessment of vibration exposure.

The specified vibration level represents the main applications of the power tool. However, if the power tool is used for different applications, with different attachments or poorly maintained, the vibration emission level may differ. This can significantly increase the vibration exposure over the entire working period.

For an accurate assessment of the vibration exposure, the times when the device is switched off or is running but not actually in use should also be taken into account. This can significantly reduce the vibration exposure over the entire working period.

Establish additional safety measures to protect the operator from the effects of vibration, such as: maintenance of power tools and accessories, keeping hands warm, organization of work processes.

Scope of delivery



(1)	Wedge body	(3)	Cone spiral
(2)	Hexagon drive SW 10 mm and SW 24 mm	(4)	Handle

4. Residual risks

The following section lists residual risks that the MiniFix can pose even if it is used as intended.

Linear movements:

- Moving parts
- Pulling in or catching
- Capture
- Cutting or clipping
- Unexpected movements



Rotating movements/vibrations and noise emissions:

- Shear
- Pulling in or catching
- Capture
- Cutting or clipping
- Joint damage
- Vascular disease
- Tinnitus or permanent hearing loss



Connect MiniFix to impact wrench:

- Squeeze
- Moving parts
- Pulling in or catching
- Capture
- Unexpected movements

5. Delivery/Storage

Unpack & check delivery condition

- Check the packaging for damage.
- Report damage to the packaging to the carrier.
- Check the goods for completeness using the delivery note.
- Document damaged goods with photos and report them to the manufacturer in writing.
- Report missing parts to the manufacturer in writing.

Storage

Consider storage space requirements:

- Airable and evenly tempered.
- Temperature is between 15 °C and 25 °C
- Relative humidity is less than 65 %.

For more than six months of storage, anti-corrosion measures for bare metal parts cause.

6. Commissioning/Decommissioning

Before commissioning, instructed personnel must check whether a suitable impact wrench has been selected and properly connected to the MiniFix.

The MiniFix is driven by a 10 mm or 24 mm impact wrench socket made of steel. Impact wrenches with a tightening torque of max. 700 Nm for a MiniFix drive with a wrench size of 10 mm are suitable. With a wrench size of 24 mm, impact wrenches up to 1627 Nm are permitted.

- Do not use force when connecting.
- Check the free movement of the spiral cone and impact socket.
- Connect battery to impact wrench.
- Connect MiniFix to impact wrench.

Installation

The MiniFix is assembled and checked according to the following points:

- The measures for the residual risks are in place and checked.
- There is no visually recognizable damage.

- MiniFix is connected to impact wrench.
- MiniFix filled with multi-purpose grease.
- Ensure that nobody is in the working area of the MiniFix.
- Check the functionality of the MiniFix.

Decommissioning

If the MiniFix is to be stored for a longer period of time, we recommend preserving it.

- Remove wood residue.
- Loosen connections.
- Shut down the impact wrench according to the manufacturer's specifications.

Operation

Only trained (specialist) personnel are qualified for operation.

- The tree or wood to be processed is suitable for using the MiniFix suitable.
- The strength of the wood is suitable for the cone spiral.
- Place the MiniFix on the saw gap and switch on the impact wrench.

Notice:

The lifting power of the MiniFix is approx. 2-3t depending on the strength of the wood.

7. Service/Maintenance

Only instructed (skilled) personnel or an electrician are qualified for maintenance and repairs.

The **cleaning intervals** depend on the degree of soiling.

Before starting maintenance work, the MiniFix must be taken out of operation. The following steps must be followed for this:

- Disconnect battery from impact wrench.
- Replace wearing parts according to specification and if necessary.
- Defects, e.g. loosened fasteners, fix immediately.

Maintenance

Every 10 operating hours: Lubricate the bearing with bearing grease (e.g. Liqui Moly P000365 3552 multipurpose grease).

Every 50 operating hours: Check the MiniFix for cracks and check the state of wear.

Repair

If repairs are necessary on site for compelling reasons: Have the repairs carried out by BaSt-Ing GmbH service personnel.

You can obtain **spare parts** from the manufacturer. The item number and serial number are required to order spare parts.

8. Dismantling

For work (installation of spare parts and repair work) that is not covered in these operating instructions are described, the manufacturer is available.

- Remove wood material from MiniFix.
- Separate the MiniFix from the impact wrench.

9. Storage/Disposal

Only trained personnel are qualified for storage and disposal.

Clean and protect the MiniFix before storage.

The MiniFix is prepared at the factory so that it can be stored for up to 6 months without any further effort. Ensure that the storage room meets the following conditions: dry, frost-free, vibration-free, protected, constant humidity, ambient temperature +5 °C to +40 °C.

Dispose of the MiniFix properly, e.g. recycling center. Dismantle the electrical components (impact wrench) and dispose of them as electrical waste. The plastic parts (polyethylene) and the metal parts can now be recycled according to the material.

The MiniFix can also be disposed of by an approved specialist company.

No polluting or toxic materials were used in the manufacture.

10.

Guarantee

For the MiniFix, 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.

11.

Disturbances

Only trained (specialist) personnel or a Qualified electrician.

MiniFix does not start	Battery discharged/ defective	Impact wrench manual notice.
	Impact wrench defective	Impact wrench manual notice.
MiniFix is stuck in the tree trunk	Stuck	Release the MiniFix by slowly reversing.
Wood at the cone spiral begins to break out	Lifting power of the MiniFix is too low	More felling tools to help to be used, such as ValFix or ValFast.

Further information on possible faults can be found in the instructions for the impact wrench.

12. 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)8042 50631-0

13. EC Statement of Conformity

The manufacturer: **BaSt-Ing GmbH**
Fleck 34
83661 Lenggries
Phone: +49 (0)8042 50631-0

hereby declares that the following product:

Product name: **MiniFix**

Built: **from 03/2022**

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, 01.03.2022