

User manual: raise bore cutter lifting tool

VB003767
WLL 150 kg



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Health and safety information

Safety is fundamental to us.
Please make sure that you read and follow this information in order to stay within safety guidelines.

Safe work procedures

Appropriate personal protective equipment (PPE) should be worn when working with or around raise boring tools or with rock drilling.

These include:

- Safety helmet
- Hearing protection
- Safety glasses
- Protective and high visibility clothing
- Safety boots
- Protective gloves
- Any site-specific PPE as required

Safety for the lifting tool

- Never exceed the maximum load capacity (max load/WLL).
- Always ensure that the crane or overhead crane has sufficient capacity for both the load and the lifting tool's own weight.
- Never stay under or near hanging loads.
- Never use the lifting tool in special environments (for example, explosive, acids, bases).
- Never use the lifting tool to lift dangerous goods (for example, molten metal).
- Never use the lifting tool for lifting people.
- When handling loads, the operator must always have full supervision and ensure that people in the risk area are aware of the lifting in progress.
- Warning of crushing hazard between moving parts and components.
- When parking, there is a risk of tipping over. The lifting tool must be placed on a stable and level surface and secured so that unintentional movement cannot occur. Improper parking can lead to serious personal injury and property damage. Only use the lifting tool for its intended purpose.
- Only use the lifting tool within the specified temperature range.
- Use only approved components and attachments with the correct load capacity with the lifting tool.
- Read separate instructions for use for associated tools.

General information

This user manual contains the necessary information for the safe use, intended use, care, maintenance and inspection of the lifting tool. The user manual must always be available to the user and must be read and understood before using the lifting tool. The lifting tool may only be used by trained and authorized personnel.

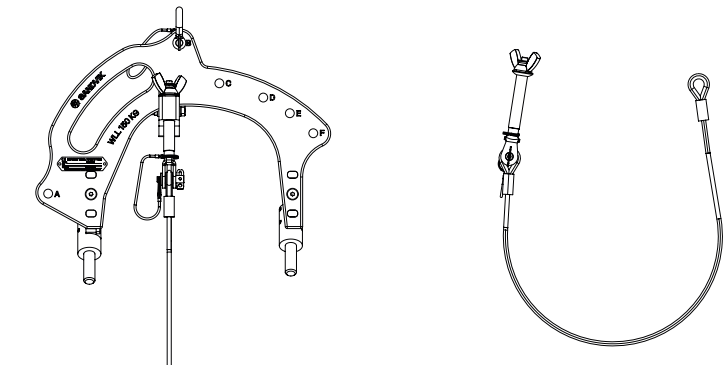
Description

The lifting tool is intended to be used together with any associated lifting equipment to simplify lifting of loads. The tool consists of cut sheet components, a threaded fork bar for connecting and adjusting the wire length, and a lifting shackle. All components are made of acid-resistant material to prevent corrosion.. The tool’s outer dimensions are 433 x 364 x 308 mm. Lifting eye Ø 28mm.

Technical information and part number

Drawing	Max load [kg]	Temperature range [°C]	Self-weight [kg]	Estimated lifespan SS-EN 13155:2021+A1:2025	Test factor for static testing
003767	150	-20° to +200°	10	16,000 load cycles	2.0

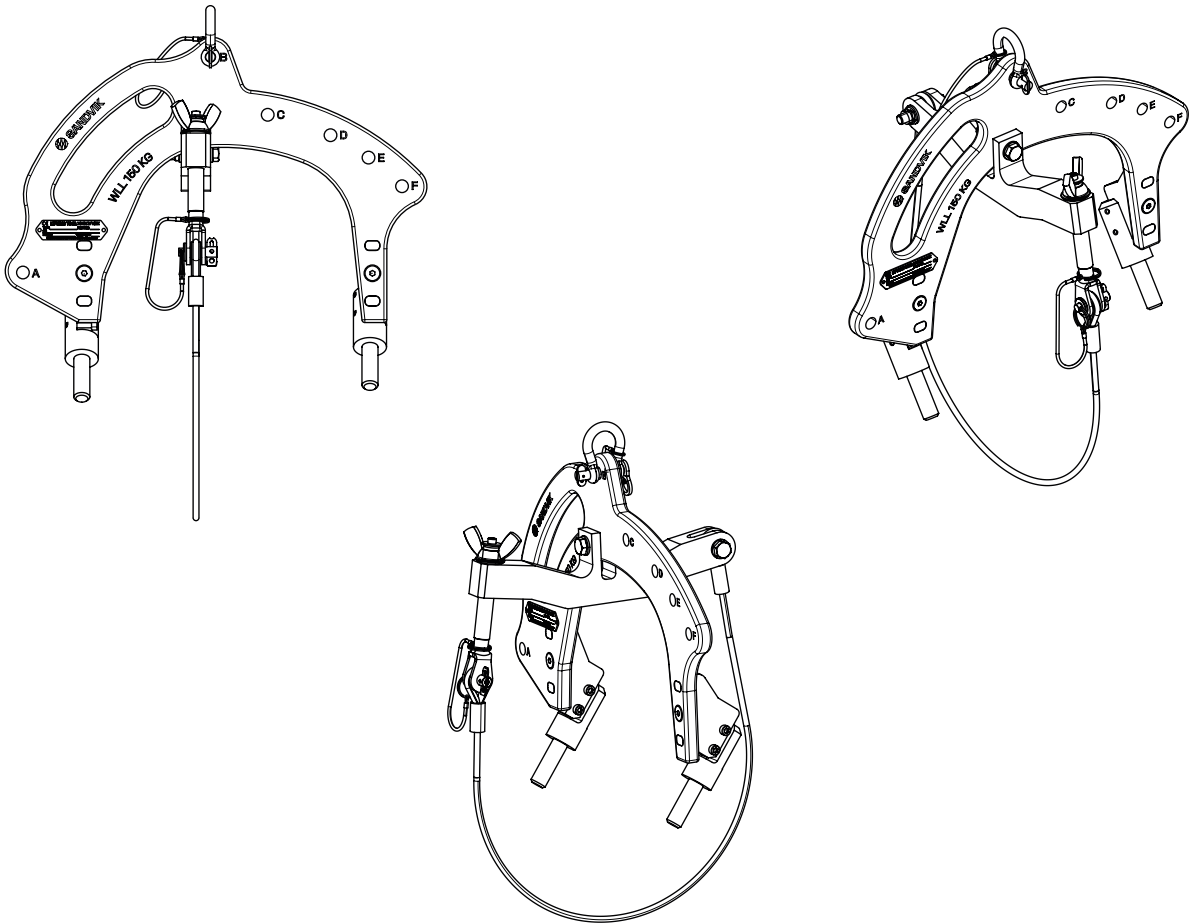
Part	Part number	Weight
Cutter lifting tool	7008-9820-90	10 kg
Wire rope assembly	7008-9820-01	0,6 kg



Identification and marking

The lifting tool is marked with serial number, maximum permissible load – max load/WLL, dead weight, year of manufacture, manufacturer and CE marking.

The marking must remain legible and intact throughout the life of the lifting tool. If any part of the marking becomes damaged, illegible or missing, the lifting tool must be immediately taken out of service and must not be used again until the marking has been restored in accordance with the manufacturer’s instructions.



Handling

Prerequisites

The lifting tool may only be used by qualified personnel who have good knowledge of the lifting equipment used in combination with the lifting tool and who have carefully read these operating instructions.

Preparatory measures

Plan the lift and refer to applicable local regulations/work instructions. Read the instructions carefully before starting assembly or lifting.

- Clean the lifting tool if necessary.
- Check that there is no visible damage to the lifting tool or its components (deformations,, cracks, abnormal wear or corrosion).
- Check the lifting tool's lifting points and connection points.
- Connect the lifting tool correctly to the overhead crane/crane. Connect the lifting tool to all of the load's intended connection points.
- Test lift.
- Move the load carefully and in a controlled manner.
- Do not jerk - jerking can cause large additional loads.
- When lifting outdoors during winter, be careful that the goods are not frozen into the ground, which can cause severe overloading and jerking when the goods are released from the ground.
- If in doubt, stop lifting.

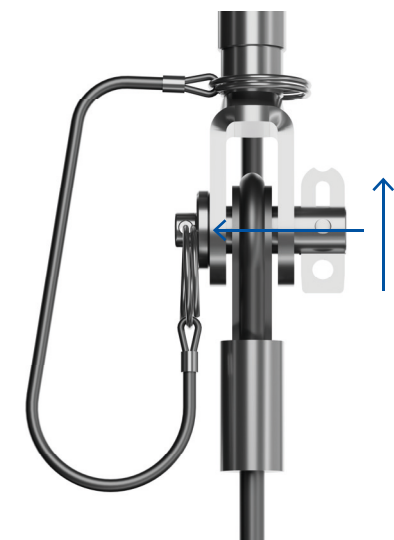
In case of uncertainty or discovery of damage, the product should be taken out of use and the manufacturer or other expert should be contacted to assess the product's condition and its suitability for use.

Instructions for use

In addition to the instructions given above under the "preparatory measures" section, you should ensure that:

- The correct position of the shackle is used for the corresponding saddle type (see table below).
- The wire rope is properly tensioned against the load (adjusted by tightening the wing nut by hand).
- All screws are properly tightened.

- Adjustment device for wire rope length under load.



- Rotate the drop-nose pin to a horizontal position and then slide out the locking pin to install and remove the wire rope from the fork.



Maintenance and inspection

Cleaning

The lifting tool is essentially maintenance-free. Keep it clean of dirt, oil and excess grease. For maintenance of associated components, such as hooks, shackles and slings, see the respective operating instructions.

Inspection

The lifting tool and its components must be visually inspected for cracks, deformations, wear or other damage before each use. Damaged parts must be taken out of service immediately and replaced if necessary.

At least once a year, the lifting tool must be inspected according to AFS 2023:11 and SS-EN 13155:2021+A1:2025. The interval can be shortened depending on the conditions of use, for example frequent use with maximum load, wear or corrosion. Inspection of associated components such as hooks, shackles and slings must be carried out in accordance with AFS 2023:11 and the respective SS-EN standard.

Repairs

Only equivalent and approved components may be used for replacement or repair. When replacing slings, the length may not be changed if this could affect the function or strength of the lifting tool. If in doubt, contact the manufacturer.

Modifications

No changes or interventions may be made to the product without the written consent of Sandvik. Sandvik assumes no responsibility for unauthorized modifications.

Marking	Saddles					
A	CRH2, CDH2, CBH2 reaming heads when the reaming head is resting in a horizontal position.					
B	7008-2004	7008-2006	7008-2013			
C	7008-2005	7008-2035				
D	7008-2008	7008-2035				
E	7008-2003	7008-2007	7008-2018	CRH2, CDH2, CBH2 reaming heads when the reaming head is in a vertical position.		
F	7008-2024	7008-2025	7008-2026	7008-2030	7008-2031	7008-2032

Exclusion:
After stem installation, the cutter lifting tool shall not be used to dress cutters at inner stem saddle positions (no. 1 and no. 2), as proper operation cannot be ensured.

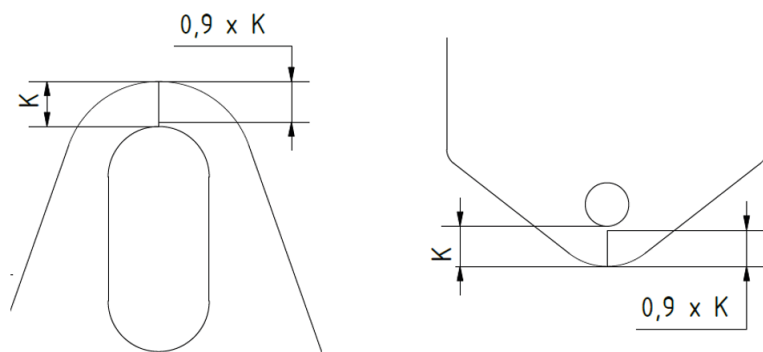
Disposal

Discard criteria

The basic rule is that the lifting tool should not be deformed compared to the basic design. However, some deformations may occur without affecting the function or safety of the tool. If in doubt, contact the manufacturer. When disposing of: clearly mark “disposed” and make the product unusable to prevent reuse.

Edge distance

Wear at connection points may not exceed 10% of the original edge distance (at least 0.9K must remain). If wear is greater, or if the wear is uneven with sharp edges, the tool must be repaired or discarded.



Cracks

Cracks must not occur in materials or welds. If cracks are detected, the lifting tool must be immediately taken out of service and repaired or discarded. Crack indication is recommended during annual inspection.

Waste disposal

The lifting tool should be sorted/scrapped as general metal scrap.

Main material: steel.

Sandvik can help with questions regarding waste management if necessary.

Management

Transport

During transport and handling, the lifting tool must be protected against shocks, deformation and corrosive environments. Always place the lifting tool on a stable surface and secure it against unintentional movement.

Storage

Store the lifting tool in a dry and protected environment. Ensure that components are not exposed to stress, crushing or other damage during storage.

Contents of the declaration of conformity

According to the current EC Machinery Directive 2006/42/EC Annex 2:1 A.

Sandvik assures under its own responsibility that the lifting equipment supplied is in accordance with Swedish standard SS-EN 13155:2021+A1:2025.

If the customer makes any modifications to the product or if the customer combines the product with a non-compatible product/component, Sandvik takes no responsibility for the consequences with regard to the safety of the product.

For further information read SS-EN 13155:2021+A1:2025 Cranes – Safety – Loose lifting gear.

A complete EC declaration of conformity is supplied separately with the tool.

Work with lifting devices and lifting equipment must be planned, organized and carried out in such a way that dangerous situations are prevented.

In accordance with the AV's collection of statutes AFS 2023:11 "Use of lifting devices and lifting equipment", lifting devices and lifting equipment may only be used by those who are well familiar with the work and have theoretical and practical knowledge for safe use.

Before using the equipment, the operating instructions should be read carefully, as they contain important information on how to operate the equipment safely and correctly. If the equipment is used in accordance with these instructions, hazards and damage can be avoided.

In addition to the user manual, we would like to refer to applicable regulations and rules in the workplace, such as the Swedish Work Environment Authority's collections of statutes.

In Sweden, AFS 2023:11 applies, but if the product is used in countries other than Sweden, there may be other national laws and regulations that must be taken into account.

