

EN Translation of the original operating instruction

About this documentation

This documentation is intended for persons who are entrusted with the installation and commissioning of the product.

The threaded lifting pin GN 1135 is referred to below as the "product".


Your safety

This section describes basic safety requirements and important information about the safe installation of the product.

- ▶ Read the operating instructions and information carefully.
- ▶ Follow the safety instructions and warnings in this document.
- ▶ Only use the product if it is undamaged and in good working order.
- ▶ Keep the documentation nearby at the location of use.
- ▶ Retain the documentation for the entire service life of the product.
- ▶ Also observe the current statutory regulations and other rules for accident prevention and environmental protection.


Safety symbols

 **DANGER** indicates dangers that lead directly to **death or severe** injuries.

 **WARNING** indicates dangers that could lead to **death or severe** injuries.

 **CAUTION** indicates dangers that could lead to **injuries**.

 **NOTICE** indicates dangers that could lead to **property damage**.

Symbols	Meaning
	Warning about a source of danger
-	Lists
▶	Instruction

Safety and hazard information

- ⚠ Improper installation, modifications or incorrect operation can cause injuries and property damage.
 - The information under "Technical data" refers to the load capacity. If this information is not provided, the product may not be used!
 - No technical alterations may be made to the product.
 - Worn, bent or damaged threaded lifting pins may not be used.
 - Threaded lifting pins are not suitable for continuous rotation of the load.
 - Usage temperature from -20 °C to 250 °C. At temperatures above 150 °C, the load capacity decreases linearly by 23 %.
 - Make certain that you and other persons are not within the range of movement of the load (danger area).
 - Suspended loads must be monitored.
 - Carry out a visual inspection before every use.

Proper use

- The product is intended for lifting and holding individual loads.
- The product may only be operated in accordance with the technical specifications.
- The rated load indicated on the product may not be exceeded.

Foreseeable misuse

- Any use that deviates from the intended use is considered misuse.
- Do not use the threaded lifting pins if they have not been sufficiently maintained or inspected.
- Never use the threaded lifting pins if they are not properly locked.
- The product may not be used for loads beyond the indicated rated load. Overloading or incorrect use can result in a failure of the load lifting gear. The load may fall.
- The product may not be used to transport people and animals.
- The product is not suitable for rotational movements while bearing a load.
- Avoid applying loads suddenly.
- Never use the threaded lifting pins in female thread that is not true to gauge.
- Never use the threaded lifting pins if they have not been fully inserted into the female thread. The thread flanks can rest atop each other upon insertion. In this case, the spring plunger will not come out, and the threaded lifting pin is not locked.

User qualifications

The product may only be used by authorized and trained persons in compliance with DGUV Rule 100-500 and the corresponding national regulations for use outside of Germany.

Storage

- ▶ Store the product only in the original packaging in a dry and protected environment.

Environmental conditions

The product may not be brought into contact with aggressive chemicals, acids or their vapors. These are potentially harmful to the product and could cause damage and failure.

Lifespan under proper use

The lifespan of all threaded lifting pins under proper use and with appropriate maintenance intervals is a maximum of 20,000 load changes.

Product description

The threaded lifting pin GN 1135 is a support element designed for fast and easy use. Pressing the orange aluminum button disengages the locking of the threaded element, allowing the lifting pin to be pulled out or pushed into the receiving bore. Sling and lifting gear permanently remaining at the workpiece (e.g. lifting eye bolt) is no longer necessary, eliminating the time-consuming process of screwing them in or out. True-to-gauge threaded bores are all that is needed as long as the material itself has sufficient strength. The shackle can be pivoted at least 180° and rotated fully in either direction. During lifting, it always orients itself in the direction of tension without causing the pin to

Installation

 **DANGER**

Bent threaded lifting pin

If the threaded lifting pin is bent, it cannot support the load.

- ▶ Replace the threaded lifting pin.

 **DANGER**

Injuries and property damage

If the button (A) does not fully spring back into position, the threaded elements are not properly locked, which could result in severe injuries or property damage.

- ▶ The button (A) is locked when it is returned to the initial position due to the spring force.
- ▶ Do not press the button while the product is under load!
- ▶ An unintended or accidental releasing of the button during use of the threaded lifting pin must be reliably prevented by the operator/user.
- ▶ To insert the threaded lifting pin, press and hold the button (A). This causes the threaded elements to retract, and the threaded lifting bolt can be inserted into the female thread.
- ▶ When the button (A) is released, the threaded elements extend again and lock into place.
- ▶ The threaded lifting pin must be screwed in completely until it fully contacts the contact surface. Observe the tightening torque specified in the table. During sustained operation, compliance with the specified tightening torques must be checked regularly.
- ▶ Always ensure that the threaded elements are fully engaged with the receiving thread.
- ▶ To release the threaded lifting pin from the female thread, unscrew it about ¼ turn.
- ▶ Then press and hold the button to retract the threaded elements again and remove the threaded lifting pin.
- ▶ The load values $F_1 / F_2 / F_3$ (see technical data) apply to lifting within a receiving element of steel.
- ▶ The lifting gear must be able to move freely in the threaded lifting pin.
- ▶ Choose an installation location where the base material can accept the introduced force without deformation.
- ▶ Sudden applications of load or vibrations must be avoided; otherwise, the threaded elements could be permanently damaged.

Commissioning

Before commissioning, always read and observe the safety instructions. Failure to heed these instructions can result in dangers to people or damage to the product.

NOTICE

Damage to the lifting gear

When attaching and detaching the lifting gear (lifting chain, sling loop and wire rope), avoid all clamping, shearing, catch and impact points that may arise during handling.

- ▶ The lifting gear must be able to move freely in the threaded lifting pin.
- ▶ Prevent damage to the lifting gear from sharp-edged loads.
- ▶ The locking of the threaded elements must be accomplished independently by the spring force.
- ▶ The shackle must be able to move freely in its entire range of motion.
- ▶ Soiling (e.g. grinding sludge, oil and emulsion deposits, dust, ...) can impair the function of threaded lifting pins and may need to be cleaned off. If the functionality of the product is no longer ensured, the threaded lifting pin must be entirely replaced.
- ▶ The product may not be brought into contact with aggressive chemicals, acids or their vapors.
- ▶ At regular intervals and before every use, check the lifting points for heavy corrosion, wear, deformation, breaks, cracks, missing/damaged balls, damage to the screw connection on the shackle.

Maintenance

The product must be regularly inspected. The inspection must at least follow the standards of the country where they product is used. This is required because products in use can be deformed by wear, improper use, etc. which can alter their material structure.

 **WARNING**

Personal injuries and property damage from failure to observe the inspection criteria

Failure to observe the inspection criteria can lead to personal injuries and property damage!

- ▶ After installation and at regular intervals depending on the level of use (at least every six months), ensure that the lifting point is still suitable for use. Also perform this check after instances of damage and other relevant incidents.
- ▶ Check more frequently if the product is subjected to critical operating conditions or increased wear.
- ▶ Have the lifting tackle inspected by an expert at least once per year.

Inspection criteria

- ▶ Ensure a firm seat.
- ▶ Ensure the correct diameter of the holding bore hole.
- ▶ Ensure that the lifting point is complete.
- ▶ Check that the load capacity information and the manufacturer's mark are complete and legible.
- ▶ Check the product for the following:
 - Deformation of load-bearing parts such as the main body and screw
 - Mechanical damage, such as deep notches, especially in the areas under tensile load
 - Heavy corrosion
 - Cracks in load-bearing parts
 - Screw function and damage
 - Soiling of the operating mechanisms (aluminum button / threaded element)
 - Locking and unlocking of the threaded elements must be accomplished independently by the spring force, full range of motion for the shackle.
 - Observe the maximum permissible number of load changes. Once the maximum number of load changes has been reached, make the threaded lifting pin unusable and dispose of it. This is required even if no wear is visible from the outside.

turn. This means that the threaded lifting pin is not unscrewed from the receiving thread, and the workpiece can be lifted safely. A safety bar prevents accidental operation.

Specification

Pin / Shackle – Steel	Pin / Shackle – Stainless steel
<ul style="list-style-type: none"> - Steel - Tempered - Manganese phosphated 	<ul style="list-style-type: none"> - Pin, non-rusting, AISI 630 precipitation-hardened - Shackle, non-rusting, AISI 316Ti

Push button	Spring
<ul style="list-style-type: none"> - Aluminum, orange anodized 	<ul style="list-style-type: none"> - Stainless steel

Threaded element
<ul style="list-style-type: none"> - Stainless steel, non-rusting, AISI 630 precipitation-hardened

Installation

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Proper setup

- ▶ Choose an installation location where the base material can accept the introduced force without deformation.
- ▶ Threaded lifting pins must be completely screwed into a true-to-gauge thread that has sufficient depth.
- ▶ Threaded lifting pins must make full surface contact with the contact surface. Blind holes must be bored deep enough that the contact surface can make contact.

Determine the location of the lifting points

Choose the locations of the lifting points so that impermissible stress is avoided such as twisting or load shifting.

- ▶ For lifting with a **single line**, situate the lifting point directly above the load's center of gravity.
- ▶ For lifting with **two lines**, situate the lifting points to either side of and above the load's center of gravity.

Load symmetry

⚠ DANGER
<p>Overloading of the lifting point</p> <p>If the load capacity of the lifting point is insufficient, the load weight cannot be supported.</p> <ul style="list-style-type: none"> ▶ The required load capacity of the individual lifting point for symmetrical loading can be found in the table "Technical data".

Check the temperature specifications

The threaded lifting pin GN 1135 can be used within a temperature range from -20 °C to +250 °C without any limitation of the load capacity. At temperatures above 150 °C, the load capacity decreases linearly by 23%.

Disposal

- ▶ Dispose of the product safely and in an environmentally sound way.
- ▶ Observe the national regulations, laws and rules.

EC declaration of conformity

In accordance with EC Machinery Directive 2006/42/EC, including its amendments, manufacturer: Otto Ganter GmbH & Co. KG, Triberger Str. 3, 78120 Furtwangen

We hereby declare that the threaded lifting pin GN 1135, based on the design as marketed by us, satisfies the applicable requirements of the EC Machinery Directive 2006/42/EC and the fundamental safety and health requirements of the harmonized and national norms as well as technical specifications listed below.

Applicable directive:
EC Machinery Directive 2006/42/EC

The following harmonized standards have been applied:
- DIN EN 13155 : 2003 + A2 : 2009

Person authorized to compile the conformity documentation:
Otto Ganter GmbH & Co.KG



Furtwangen, 09/30/2022
Stefan Ganter, Managing Director