



PATENTED EQUIPMENT FOR THE BUILDING INDUSTRY

USE AND MAINTENANCE MANUAL FORK MOUNTED HOOK

This use and maintenance manual has been issued according to standard **UNI ISO 12100-2:2009**
Conforming to Machine Directive **2006/42/EC**
Conforming to that required by standard **UNI EN 13155:2009 type C**

Standards of reference:

UNI EN ISO 12100-1:2009 Safety of machinery – basic concepts, general principles for design – Part 1:
basic terminology, methodology

- ISO International Standard
- EN European Standard
- UNI National standard

- UNI Italian National Body of Unification
- CEN European Committee for Standardisation
- ISO International Organization for Standardization

In compliance with Common CEN/CENELEC Regulations, the national standardisation bodies of the following countries are obliged to transpose European standards:

Austria, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, the Netherlands, Poland, Portugal, the United Kingdom, the Czech Republic, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and Hungary.

Fork mounted hook

Introduction

In compliance with accident-prevention standards, the company has written this instruction booklet to inform users concerning the most correct use of fork mounted hooks.

It is therefore recommended to read and abide by all that is prescribed before using the equipment.

For any other loading situations not included in this booklet, abide by common safety standards.

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1. USING AND STORING THE USE AND MAINTENANCE MANUAL

- The use and maintenance manual is addressed to installation and maintenance managers and all the operators that use the equipment, **especially** for the parts regarding **safety** in the work place.
- The information contained in the manual indicates the correct use of the equipment according to the intended design and construction purposes.
- It also contains information regarding handling, installation, maintenance and overhauls, all within the limits established by the manufacturer inside the manual.
- The use and maintenance manual is an integral part of the equipment. It must be kept until its final dismantling. It must be stored in a protected place, close to the equipment, in order to be available when required.
- Should the manual be damaged or lost, the user must request a copy from the manufacturer.
- The manufacturer reserves the right to modify the equipment and the manuals without being obliged to update previous editions.
- The user can request information and updates which, when issued, also become an integral part of the user manual.
- Should ownership of the equipment be transferred, this manual must be transferred as well, as prescribed in the machinery directive 2006/42/EC.

1.1. Cases which release the manufacturer from liability.

The manufacturer is not liable in the following cases:

- improper use of the equipment or use by personnel not trained for professional operation;
- use contrary to specific regulations;
- incorrect installation;
- serious shortcomings in intended maintenance and overhauls;
- modifications, interventions or tampering of any type performed by unauthorised personnel.

The manufacturer declines all responsibility when use of the fork mounted hooks does not comply with the safety standards.

2. FORK MOUNTED HOOK DESCRIPTION

The fork mounted hook is equipment consisting of one or more parts equipped with attachment points to facilitate the handling of loads, which require support at one or more points.

Fork mounted hooks are non-fixed load lifting attachments that are assembled directly on the arm or arms of a crane or a manually controlled lifter without affecting the integrity of the crane or manually controlled lifter (point 3.11 UNI EN 13155:2009).

This type of equipment is intended for loading and unloading operations, handling and installation of materials that require one or more support points.

Examples of fork mounted hooks



2.1. Technical characteristics.

Their structure has been inspected to handle the said materials.

Besides the serial number and year of manufacture, the identification plate of the fork mounted hooks also indicate the maximum operating load and mass of the equipment without a load, which together provide the gross weight; the lifting device must obviously be suitable to manoeuvre the gross weight.

The maximum operating load is the maximum weight that the fork mounted hooks can lift.

In order to prevent load from being detached, use safety hooks with inlet closure.

Boscaro fork mounted hooks undergo static tests with use coefficient equal to 2 without permanent deformation.

3. USE CONDITIONS

A visual and general inspection must be carried out every day before starting any type of work.

Do not use the equipment before having well understood the indications of this manual.

Verifications before use:

- verification of the load suitability;
- load request interval.

Operating modes:

The fork mounted hooks were designed and manufactured to handle and install materials that require one or more support points.

For lifting, the personnel in charge must carry out the several manoeuvres according to the information and train received and/or experience gained throughout the years.

Using the fork mounted hooks to handle materials in height or in ways different from that indicated is strictly forbidden.

4. GENERAL SAFETY PRESCRIPTIONS

- The operators must use the PPE (personal protective equipment) made available in compliance with the information and training received.
- The individual contracting companies must inform and train workers (crane, loading and unloading operators) concerning the correct actions to be taken when lifting and handling loads.
- Equipment must be chosen which is compatible with one's machines; the overall weight of the suspended load must be within the nominal capacity of the crane at normal operating conditions.
- The combination of the crane with non-fixed load lifting attachments must only be activated by trained personnel in safe conditions.
- Lifting and support must be carried out in controlled conditions and under the direction of a specifically designated person.
- Operations concerning use of cranes with non-fixed load lifting attachments must be suspended in the presence of wind which exceeds a maximum speed (not allowing full control of the machine), storms, ice, snow, fog or other adverse weather conditions which can endanger the safety of personnel.
- Measures must be taken to prevent workers from stopping below suspended loads.
- It is not allowed to have the loads pass over unprotected workplaces normally occupied by workers.
- It is strictly forbidden to use the equipment before having prevented access to persons and/or animals to the work area. For this purpose, the area must be fenced off and any type of measure considered appropriate must be taken to make the activity safer.
- Make sure that the signs indicating forbidden access of unauthorised personnel to the working area and the suspended loads hazard are clearly visible.
- It is strictly forbidden to pass within the range of action of the equipment.
- Danger of falling material.
- Danger of crushing.
- Danger of collision.
- It is strictly forbidden to pass with the load outside of the work area.
- Any work on the equipment must be performed on the ground and in a stable position.
- The safety of the equipment is linked to the efficiency of the safety systems of the machine upon which it is installed.
- This machine must be equipped with an acoustic indicator device to warn people that the machine and equipment are in operation.

5. INSTRUCTIONS

5.1 For personnel

- Lifting and handling operations of loads must be carried out by specialised personnel, specifically trained for these manoeuvres. The use of productive or temporary personnel in general must be excluded.
- It is forbidden to abandon the workplace with the removable load gripping equipment running.

5.2. For transportation and deposit in warehouse

- When lifting and transporting the equipment, means suitable to the weight and clearance must be used.
- For lifting operations, insert the arm or arms of the machine into the fork mounted hooks and lock them with thumb screws.
- The fork mounted hook must be stored carefully, making sure it is stable.

5.3 For use

- Use the equipment exclusively to lift and handle material with the characteristics described in point 3.
- Make sure that the weight of the load to be handled is within the capacity indicated on the fork mounted hooks identification plate and, obviously, that they are both within the capacity of the machine.
- In order to use the equipment correctly, ensure that the hook of the fork mounted hook is equipped with inlet closure.
- Once the fork mounted hook has been placed on the arms of the machine, ensure that the lower part is firmly secured with a thumb screw.
- During lifting operations and handling, avoid rough accelerations and bumps. Use progressive speeds, warning with the buzzer supplied with the crane the beginning of the handling operations.
- Avoid using equipment to rip or tow any object, as the equipment has been designed to support loads in vertical position. This manoeuvre can be dangerous.

Failure to comply with the instructions described above can cause dangerous situations and/or damage to the equipment, making it unsafe.

6. MAINTENANCE AND REPLACEMENT OF COMPONENTS SUBJECT TO NORMAL WEAR

- Inspections must be made by personnel previously commissioned, formed and trained concerning use of load gripping removable equipment (fork mounted hook), without prejudice to the obligations of training workers as machine operators, as provided for in Legislative Decree 81/08.
- The verification that such information, formation and training has been provided must be proven by a training record, kept by the contracting company.
- All maintenance and overhauls must be carried out with the equipment resting stably on the ground.

6.1. Routine maintenance

It is compulsory to inspect the fork mounted hook:

- every time it is removed from the warehouse and every day before operating it on the worksite;
- after a repair has been performed with the intervention noted in the use and maintenance manual;
- during the service lifetime of the equipment, every three months, noting the results in the use and maintenance manual.

The equipment must be checked to make sure it is efficient; this check consists in:

- checking that there are no cracks in the welding;
- checking the clearance of the articulation pins, if applicable;
- checking that the metallic structure has no breakage and/or deformations;
- verifying the conditions of the screws and the correct tightening of the nuts, if applicable.
- replacing worn parts with original spare parts supplied by the manufacturer.

Should any faults be found, contact the manufacturing company to overhaul the equipment. Operations performed incorrectly make the equipment dangerous. The lifting beam must be repaired and overhauled by our specialised personnel at our premises. The use of non-original spare parts can endanger the equipment safety, as well as invalidate the EC conformity of the equipment.

6.2. Storage

The equipment must rest stably on the floor and be stored in a dry place away from dangerous substances that may damage its components (e.g. acids, alkaline solutions and solvents).

7. USE LIMITS

The equipment has been designed and dimensioned to perform 20,000 lifting cycles. When this limit has been reached, it must be overhauled at our workshop and replaced if necessary.

The wear of the equipment is subject to various situations (such as careful use) and therefore the lifting cycles also depend on the circumstances mentioned above.

8. WARRANTY

The company guarantees its device for a maximum period of 12 months from the date of delivery regarding material or construction defects.

Upon receiving the goods, check:

- The data provided on the packing slip (addressee, type of goods, number of packages);
- That the goods received are without any type of damage.

IN THE EVENT OF FAULTS, IMMEDIATELY NOTIFY THE CARRIER, WRITING A CLAIM ON THE PACKING SLIP, AND NOTIFY THE COMPANY WITHIN EIGHT DAYS FROM RECEPTION OF THE GOODS.

Should manufacturing defects be found, the purchaser has the obligation of reporting this to the company within 8 days from the date of reception. The company shall take care of resolving the problem as quickly as possible free of charge.

Parts damaged due to carelessness or negligence in use, inappropriate maintenance, improper use or normal wear, defects caused by tampering, damage caused by transportation, by failure to comply with the information contained in this manual and by any other circumstance which cannot be blamed on manufacturing defects are excluded from the warranty.

The fork mounted hook, subject to be repaired under warranty or not, must be accompanied by a copy of the invoice and by the use and maintenance manual.

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