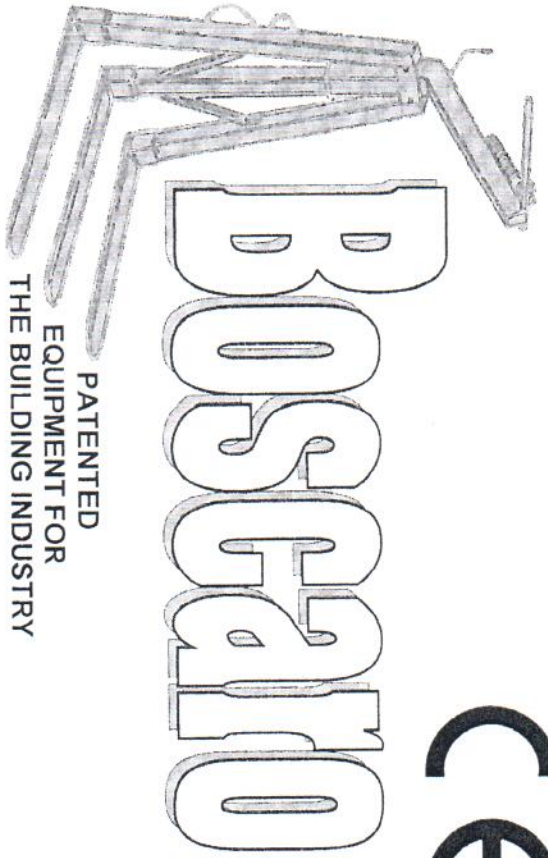


CE



PATENTED
EQUIPMENT FOR
THE BUILDING INDUSTRY

USER AND MAINTENANCE MANUAL

Conical bucket - Concrete skip - Boat skip - Mortar skip
Tipping skip - Circular skip - Clamshell bucket

This user and maintenance manual was drafted according to the Standard ASME B30.
It complies with the Machinery Directive 2006/42/EC.

- Reference standards:
- EN 1263:1-2003 Safety nets – Safety requirements, test methods
 - EN 10204:2005 Metal products – Type of control documents – Also applicable to non-metal products
 - ASME American Society of Mechanical Engineers
 - ANSI American National Standard Institute
 - ISO International standard
 - EN European standard
 - CEN European standardisation committee
 - ISO International standardisation organisation

In compliance with common CEN/CENELEC regulations, the national standardisation bodies of the following countries must comply with the European standards:

Austria, Belgium, 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, Slovakia, Slovenia, Spain, Sweden, Switzerland and Hungary

Introduction

In accordance with safety regulations, BOSCARO srl, has prepared this instruction booklet with the purpose of informing the user on the most correct use of the buckets. Therefore, please carefully read and follow the instructions in this booklet before using the equipment. For situations involving loads not covered in this booklet, please follow normal safety regulations.

CONTENTS

1. USE AND PRESERVATION OF THE USE AND MAINTENANCE MANUAL	5. INSTRUCTIONS 5.1. For staff 5.2. For transport 5.3. For use
2. DESCRIPTION OF THE BUCKETS	6. MAINTENANCE 6.1. Routine maintenance
3. CONDITIONS OF USE	7. USE LIMITATIONS
4. GENERAL SAFETY PRESCRIPTIONS	8. GUARANTEE

1. USE AND CONSERVATION OF THE USERS AND MAINTENANCE MANUAL.

The User's and Maintenance manual is intended for the staff in charge of:

- Installation, maintenance and all operators who are present during equipment operation, especially as regards the parts relative to safety in the workplace.
- The information in the manual serves to indicate the correct use of the equipment in compliance with the purpose for which it was designed and constructed.
- In addition, information is also given regarding moving, installation, maintenance and revision, all within the limits set by the manufacturer in the manual itself.
- The User's and Maintenance manual is an integral part of the equipment and must be conserved until the equipment is decommissioned and dismantled. It must be kept in a protected area, in proximity to the equipment, so that it is completely available for consultation.
- In case the manual is lost or damaged, the user must request a copy from the manufacturer.
- The manufacturer reserves the right to make modifications to the equipment and manuals with no obligation to update previous editions.
- The user can request information and updates which, when issued, become an integral part of the user manual.
- If the equipment is transferred, this manual must be transferred with it, as prescribed by the 2006/42/CE.

1.1 Cases where manufacturer declines responsibility.

The manufacturer is relieved from all responsibility in the following cases:

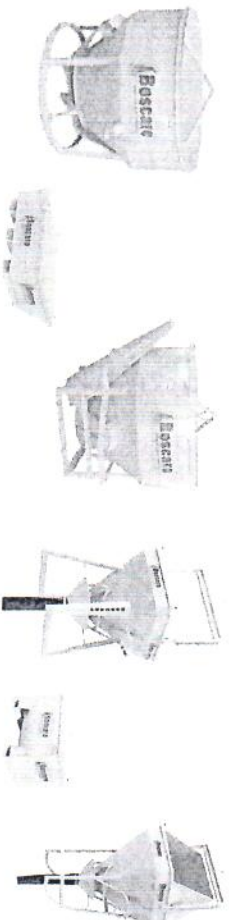
- improper use of the equipment, or use of the equipment by personnel not professionally trained in its use;
- use contrary to the specific normative;
- incorrect installation;
- serious deficiencies in maintenance and programmed revisions;
- Changes, intervention or handling of any type performed by unauthorised staff.

The manufacturing company declines all responsibility when Conical buckets – Square buckets – Mortar carrying bin – Trapezoidal buckets – Automatic unloading buckets are not used in complete compliance with safety standards.

2. DESCRIPTION OF:

- CONICAL BUCKETS - CONCRETE SKIP - MORTAR SKIP -
- BOAT SKIP - TIPPING SKIP - CIRCULAR SKIP - CLAMSHHELL BUCKET -

Conical buckets - concrete skip - mortar skip are building equipment foreseen for the loading, lifting and transport cement mixtures (concrete, mortar and/or similar materials), used on building sites in general.



Their structure is verified as concerns the load resulting from such materials having a maximum specific weight 2200 Kg/Mc.

Boat skip - tipping skip - circular skip - clamshell bucket - are devices foreseen to be used for the loading of rubble, earth, sand, pebble gravel and other loose materials. These devices are used on building sites in general.

This accessory avoids the manual intervention of the operator obtaining the automatic upsetting and restoration of the bucket without the presence of persons close to the unloading place. Contrary to other similar accessories, thanks to this model, the operator can unload the content of the bucket on the sides just by shifting the arm of the crane in opposite direction with regard to the side selected for the unloading. This operation is very useful when one unloads directly on a truck or in other places where space is small.



Their structure is verified as concerns the load resulting from such materials having a maximum specific weight 1600 Kg/Mc.

3. CONDITION OF USE

Do not use the bucket before having clearly understood the instructions in this manual.

In addition to the capacity in litre, the identification plate affixed to the buckets indicates the Max. load which can be moved and the weight of the equipment itself: the sum of these two weights is the gross weight. The lifting equipment (crane) must obviously be capable of manoeuvring this gross weight.

4. GENERAL SAFETY PRECAUTIONS

- Operators must use IPDs (Individual Protection Devices) made available to them and in compliance with information and training they have received.
- Individual contracting companies will proceed to inform, train and qualify their employees (Crane operators : those loading and unloading) on the correct actions to take when lifting and moving loads to heights. It is understood that employees such as crane operators must be trained, pursuant to Leg. Decree 81/08.
- It is necessary to choose equipment compatible with own machinery. The total mass of the suspended load shall fall within the nominal capacity of the lifting equipment during normal use conditions.

- The combination of the lifting equipment with the load hold moving equipment must only be activated by staff trained for this use and under safe conditions.
- Lifting and support must occur under controlled conditions and under the management of a specifically designated person.
- The operations involved in using the lifting equipment with the load hold moving equipment should be suspended in the event of winds exceeding the maximum speed planned (which would no longer enable the complete control of the machine) and storms, ice, snow, fog or other adverse weather conditions which could compromise staff safety.
- Where multiple machines are used simultaneously in the same location, communication among crane operators must occur via transceivers, with the crane operator always having one in his hand and the operator on the ground responsible for the harnesses having the other.
- Measures must be taken to ensure employees do not stay under the suspended loads.
- It is not permitted to pass loads over unprotected workplaces, usually occupied by employees.
- It is strictly forbidden to use the equipment before having blocked access to the work area for people and/or animals. For this reason, it is necessary to fence off the area and implement all measures considered appropriate to make the work safer.
- Signs must be clearly visible that indicate forbidden access to the work area to unauthorised employees and the danger of suspended loads.
- Transit is strictly forbidden in the working radius of the equipment
- Danger of falling materials.
- Danger of crushing.
- Danger of knocks.
- Transit is strictly forbidden with the load outside the enabled work area.
- Any intervention on the equipment should take place on the ground and in a stable position.
- Safety of the equipment is linked to the efficiency of the safety systems on the machine on which they are assembled.
- The machine must have an acoustic alarm device to warn people the machine and equipment are operating

5. INSTRUCTIONS

5.1. For staff

- Lifting operations to move loads to heights must be performed by staff specialising in and trained for this activity. Never allow use by production staff or temporary staff in general.
- It is forbidden to abandon the workplace with load hold moving equipment operating.
- Adjustment and/or maintenance operations must be carried out by specialised personnel trained in these activities. The use of any other type of personnel is absolutely forbidden.

5.2. For transport

For hoisting and transport, suitable means must be employed in terms of weight and size. For hoisting, hook-up the solidly fixed crane hook or chain to the ring located above the bucket. The bucket must be carefully stored and made stable.

5.3. For use

- Use the equipment only for lifting and handling materials with characteristics as described at point 3. For the buckets, which foresee the unloading of the mixture by means of mechanical lever release, check the efficiency of the closing (lever block) before starting the loading operations.
- Ensure that the weight of the material to be handled comes within the capacity indicated on the bucket's identification plate and, obviously, that the material and equipment come within the crane's capacity.
- **Important** The operator has to make sure that the connection of the buckets to the lifting device occurs safely. For correct use of the bucket it is indispensable to place a welded chain between the crane hook and the ring on the bucket, with a ring on the upper end and a hook with snap-closure on the lower. Check that this chain is suitable for the load (bucket plus material).

The buckets must be used in compliance with the procedures that their operation requires: free space, no person must be in the work area, acoustic signal advising the start of the manoeuvre, placement of danger signs. The failure to observe the above described instructions may cause dangerous situations and/or damage to the equipment, making it unsafe.

6. MAINTENANCE

- A control must be conducted by previously assigned, trained and qualified staff on the use of the load hold n equipment, it being understood that employees must be trained to work on the crane.
- The control on the information, training and qualifications provided must be backed up by a report on the provided, kept by the contractor.
- Any maintenance or service operations must be conducted with the equipment resting on the ground in a position.

6.1. Routine Maintenance

- The safety device must be compulsorily inspected.
- whenever it is removed from the warehouse and every day before start up in the worksite.
- after a repair.
- during the service life of the equipment

Control of the device is necessary to ensure the efficiency of the device and consists of:

- Checking there are no cracks in the welding;
- Checking for breakages and/or deformations on the metal structure;
- Checking the conditions of the screws and correct tightening of the nuts;

The buckets must be subject to a careful cleaning, in detail clean and grease the parts involved in the opening/c unloading movements. Do not use rams or other similar tools to ease the emptying of the buckets since such actions may endanger resistance.

In the case any anomalies are detected contact the manufacturer for the servicing of the device. Operator conducted incorrectly make the equipment dangerous. All repair and servicing of the forks must be performed by qualified personnel at our facilities. The use of aftermarket parts may compromise the safety of the device well as invalidate the CE compliance of the equipment.

The manufacturer declines all responsibility when the equipment is not used in full respect of regulations. The instructions furnished in this booklet are retained to be invalid when the regulations authorised institutions are more stringent and rigorous.

7. USE LIMITATIONS

The equipment was designed and dimensioned for use equal to 20,000 lifting cycles. Wear of the safety device subject to various situations (such as storage, care during use and any performance of its function), therefore lifting cycles greatly depend on the aforementioned circumstances.

8. GUARANTEE

- The company Boscaro guarantees its device for a maximum period of 6 months from the delivery date for material construction defects. On receiving the goods, check:
 - The data reported on the transport document (addressee, type of goods, number of packages);
 - That the goods received are undamaged.

IN CASE OF ANOMALIES, IMMEDIATELY NOTIFY THE CARRIER, WITH WRITTEN RESERVATION ON TRANSPORT DOCUMENT AND ADVISE BOSCARO S.R.L. WITHIN 8 DAYS OF RECEIPT OF THE GOODS.

If manufacturing defects are found, the purchaser is obliged to communicate such defects within 8 days from the date of receipt to Boscaro srl, which will undertake to resolve the anomaly as quickly as possible without any add costs.

The guarantee excludes parts that were damaged due to carelessness or negligence during use, inadequate maintenance, improper use or normal wear, defects due to tampering, damage caused due to transport and any circumstances which cannot be attributed to manufacturing defects.

The safety device whether repaired under guarantee or not must be accompanied by the photocopy of the invoice the user and maintenance manual.