PLATE CLAMPS

Horizontal Plate Clamp

Universal Plate Clamp

INSTRUCTION MANUAL

Imported exclusively for the Global Lifting Group by Pacific Hoists Pty. Ltd. & Pacific Hoists Ltd.
Thank you for purchasing your new Global Plate Clamp. This lifting device now uses the latest technology to ensure you of a higher quality, robust design with a high level of operator safety which is easier and safer to use, ensuring a longer service life.

It is important that this manual be kept in a safe place where any operator of the Global Plate Clamp can refer to it and understand the operating principles of this device. All users of this Global Plate Clamp should read this manual in full and understand the safe operating principles of the device.

Features of the Global Plate Clamps include the following:

- The Global Plate Clamps are manufactured to comply with AS4991.
- Designed for the lifting and transferring of steel plates and other materials in a wide variety of industries such as; shipbuilding, construction, aircraft and offshore applications.
- The Global vertical and horizontal plate clamps are suitable for the lifting and transfer in vertical and horizontal position of non-sagging steel plates.
- These plate clamps are manufactured from high quality steel to guarantee the safety and durability required by industrial applications.
- All clamps have been ergonomically designed to be user-friendly (smaller, lighter and more compact) while not sacrificing strength and durability.
### Specifications

**Global Universal Plate Clamps**

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<th>Model</th>
<th>GLUC050</th>
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**SPECIFICATIONS (CONT.)**

GLOBAL HORIZONTAL PLATE CLAMPS

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SAFETY INSTRUCTIONS

THE FOLLOWING SAFETY INSTRUCTIONS OUTLINE THE CARE AND SAFE USE OF UNIVERSAL AND HORIZONTAL PLATE CLAMPS AND ARE BASED ON SECTION 22 OF THE LEEA CODE OF PRACTICE FOR THE SAFE USE OF LIFTING EQUIPMENT.

This information is of a general nature; only covering the main points for the safe use of plate clamps. It may be necessary to supplement this information for specific applications.

- Store and handle beam clamps correctly
- Inspect beam clamps and accessories before use and before placing into storage
- Ensure the supporting structure is adequate for the full load that will be imposed and suitable for the application.
- Check the clamp is of the correct profile and size, or correctly adjusted, for the beam width and that it seats correctly on the beam flange.
- Ensure the beam clamp is strong enough for the full load that will be imposed.
- Check that the clamp is directly over the centre of gravity of the load.

GENERAL SAFETY INSTRUCTIONS

- Check the clamp before use – do not use a defective plate clamp.
- Ensure that the clamps are suitable for the thickness of plate to be lifted.
- Never exceed the maximum or minimum thickness for which the clamps are designed.
- Put the clamp onto the plate as far as it will go.
- Do not use clamps at an angle to the edge of the plate or for lowering from vertical to horizontal, or vice-versa, unless they are designed for the purpose.
- Keep oil, grease and similar contaminates away from jaws which use a friction grip material to hold the plate.
- Never use plate clamps on hard or polished plate unless they have been specifically designed for that purpose.
- Take great care to ensure the plate is fully supported before attempting to release the clamp.
- Keep all persons clear of the danger zone and remember that a falling plate can ‘glide’ sideways. A large thin plate is likely to glide further. Also the higher it falls from, the bigger the danger zone.
SAFETY INSTRUCTIONS (CONT.)

**USING THE UNIVERSAL PLATE CLAMP SAFELY**

- Some designs of clamp, particularly those with a moving cam action jaw where the initial grip is provided by a spring, have a minimum load and minimum plate thickness they can safely lift. Wherever possible refer to the manufacturer’s instructions but in the absence of specific guidance the load should not be less 10% of the rated capacity. The minimum plate thickness should not be less than 20% of the maximum jaw range. For more information contact Pacific Hoists technical support.

- Some designs of plate clamp are suitable for lifting plates from the horizontal to the vertical and the inclusion of a pendant chain to provide articulation between the clamp and lifting hook is essential. However the use of pendant chains should always be considered to prevent the hook weight being imposed on the clamp as this might cause the clamp to be released.

- Position the clamp correctly. Place the clamp over the centre of gravity of the plate. If the plate is long and has a tendency to bend, use two clamps equally disposed about the centre of gravity in conjunction with a spreader beam.

- Take care to ensure no one clamp takes more than its rated capacity.

- Ensure the clamp is fully locked or tightened onto the plate before lifting.

- Under no circumstances should packing be placed between the plate and the jaws nor any attempt made to lift more than one plate in the clamp.

- When using the universal type, check the manufacturer’s instructions for the limitations on the angles they may be used at.

**DON’T FORGET!!**

- Never overload a clamp (if more than one is used ensure each can take its share)

- Never exceed the permitted maximum or minimum thickness

- Never use beyond the permitted angles

- Never use on hard or polished plate unless designed for that purpose

- Never try to lift more than one plate

- Never place packing between the plate and the jaws
SAFETY INSTRUCTIONS (CONT.)

USING THE HORIZONTAL PLATE CLAMP SAFELY

- Always use horizontal plate clamps in pairs with the correct type, size and length sling and reeved in the manner for which they are designed. Some of these clamps are designed to be used with an endless loop of chain whilst others are for use with a two leg sling. Under no circumstances must an endless loop be substituted for a two leg sling or vice versa as this will alter the geometry and therefore the gripping forces on which the clamps rely for their safe operation.
- If the plates are likely to sag transversely, clamps which grip the plate by a cam must be used.
- Position the clamps correctly. Place the clamps over the centre of gravity of the plate. If the plate is long and has a tendency to bend use two or more pairs of clamps in conjunction with a spreader beam, equally disposed about the centre of gravity, to minimise the sag. Ensure the clamps face each other to balance the horizontal clamping forces.
- Take care to ensure no one clamp takes more than its rated capacity.
- Put the clamps onto the plate as far as they will go.
- If the sling is adjustable to accommodate various widths of plate ensure it is adjusted to give the correct geometry.
- Never attempt to rotate from the horizontal to the vertical or vice versa with this type of clamp.

DON’T FORGET!!

- Never overload a plate clamp
- Never use a single clamp – always in pairs
- Never exceed the permitted maximum or minimum thickness
- Never substitute an endless loop for a two-leg sling or vice versa
- Never exceed the permitted range of sling leg angles
- Never use the cam-less type if the plate can sag
- Never attempt to rotate from the horizontal to the vertical with this type of clamp
IN-SERVICE INSPECTION

Regularly inspect the plate clamp. If any of the following defects are found, refer to a Competent Person:

- Wear, damage or distortion to fixed and moving jaws.
- Frame opening out or cracked.
- Insecure, worn or bent pins, bolts etc.
- Worn friction grip material.
- Damaged, bent or unsatisfactory action locking lever.
- Tight, bent or damaged clamping threads etc.
- Corrosion.
- Illegible marking

MAINTENANCE

Plate clamps should be cleaned and any moving parts lubricated at appropriate intervals, unless the suppliers specific instructions indicate otherwise. In the case of clamps with smooth jaws lined with a friction material, care must be taken to ensure no lubricant comes into contact with the friction material.

WARNING: Teeth of jaws must not be re-sharpened or re-cut unless this has been specifically approved by the maker.
■ Commence to open the plate clamp by pulling the latch lever towards the jaw.

■ Continue to place the plate clamp securely to the to-be lifted material and make sure that the jaw of the place clamp rests on the material.

■ The plate clamp will close by pulling the latch lever towards the lifting eye. The clamp will now stay attached to the to-be lifted material in the pretensioned position.

■ The lifting application can begin.

■ After the lifting application is completed, make sure the clamp is fully free of load by decending the crane hook. The lifting eye of the plate clamp can now move freely and you are able to open the clamp by pulling the latch lever towards the jaw.

■ When storing the plate clamp, please leave the clamp in an opened position. This position will protect the teeth from damaging.
### INSPECTION LOG

**INITIAL SERVICE DATE:**

**SERIAL NO:**

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<th>NOTES</th>
<th>AUTH SIGNATURE</th>
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For further information in relation to this product, please contact the branch where the product was purchased.

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