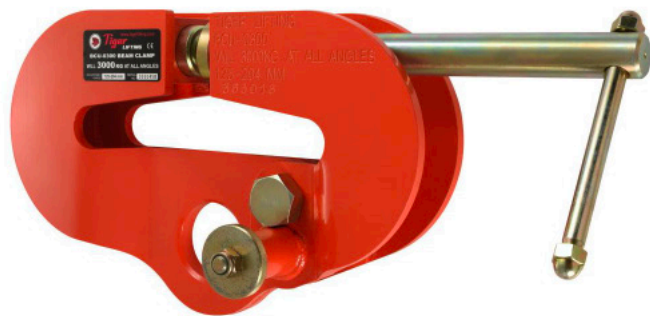




BCU

Tiger Universal Beam Clamp



ORIGINAL INSTRUCTION GUIDE

- PLEASE PASS ONTO OPERATOR

Sticker here



www.tigerlifting.com

Manual Tiger BCU En 201812 v5.1





Operator Instruction Guide



MUST READ BEFORE USE

1. It is important that this manual is read and fully understood and that all instructions are followed before using the beam clamp.
2. The beam clamp should be used by a trained and or experienced person who understands its use and will operate the unit in a responsible and safe manner.
3. Inspect the clamp for any damage or wear before use. Ensure the fixed jaw and cam is free from any defects. Do not use the clamp if it is not in good working order.
4. The supplier takes no responsibility for any consequential loss or damage if the clamp has been dismantled or altered by an unauthorised person, especially if original parts were not used to repair the machine.
5. Apply the clamp to the beam in the open position, close the clamp ensuring that the clamp is fully closed.
6. The adjusting screw must be fully hand tight before any load is applied; failure to do so could result in serious injury to persons or damage to equipment.
7. Do not attempt to overload the machine as this could cause damage to person or equipment.
8. Do not use the clamp in the open position or for lifting flat plate sections.
9. Always ensure the clamp is used or repaired by a competently trained person.

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For details of the full Tiger product range visit our website: www.tigerlifting.com

Due to our policy of continual product development, dimensions, weights and specifications may change without prior notice.

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1. Safety Information

Tiger Lifting products have been built in accordance with state of the art and generally accepted engineering standards. Nonetheless, incorrect handling when using the products may cause dangers to life and limb of the user or third parties and/or damage to the hoist or other property. The operating company is responsible for the proper and professional instruction of the operating personnel. The personnel responsible for operation, maintenance or repair of the product must read, understand and follow these operating instructions. These instructions are intended to make the user familiar with the product and enable them to use it to the full extent of its intended capabilities. Acting in accordance with these instructions helps to avoid danger, reduces repair costs and downtime and increases the reliability and lifetime of the product.

The operating instructions must always be available at the place where the product is operated. Apart from the operating instructions and the accident prevention act valid for the respective country and area where the product is used, statutory regulations and procedures along with the commonly accepted regulations for safe and professional work must also be adhered to. The indicated protective measures will only provide the necessary safety if the product is operated correctly and installed and/or maintained according to the instructions. The operating company must be committed to ensure safe and trouble-free operation of the product.

If the product's ability to do a job, or to do so safely is in question - DON'T TRY IT.

Definitions

! WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. It may also be used to alert against unsafe practices.

Competent Person

The competent person should have appropriate, practical and theoretical knowledge and experience of the Tiger product which will enable them to detect defects or weaknesses and to assess their importance in relation to the safety and continued use of the unit. Competent persons may be, for example, the maintenance engineers of the manufacturer or the supplier. However, the company may also assign performance of the inspection to its own appropriately trained specialist personnel.

Beam Clamp

A beam clamp is a device designed to attach to a suitable steel beam section to provide a means of suspension for a lifting appliance.

Beam

A beam is any structural steel section provided it is suitable for the purpose of lifting.

Health and Safety at Work

All equipment must be maintained and tested to meet relevant statutory regulations when put to use. It is the responsibility of every company to ensure that their employees have been fully and properly trained in the safe operation of their equipment. It is the owner's and user's responsibility to determine the suitability of a product for any particular use. It is recommended that all applicable industry, trade association, federal, state and local regulations are checked. Read all operating instructions and warnings before operation.

Equipment Labelling

The identification label/name plate details the product type, model, manufacturer, working load limit (WLL), serial number and the beam width range. The CE marking indicates compliance with the essential health and safety requirements of the Machinery Directive 2006/42/EC.

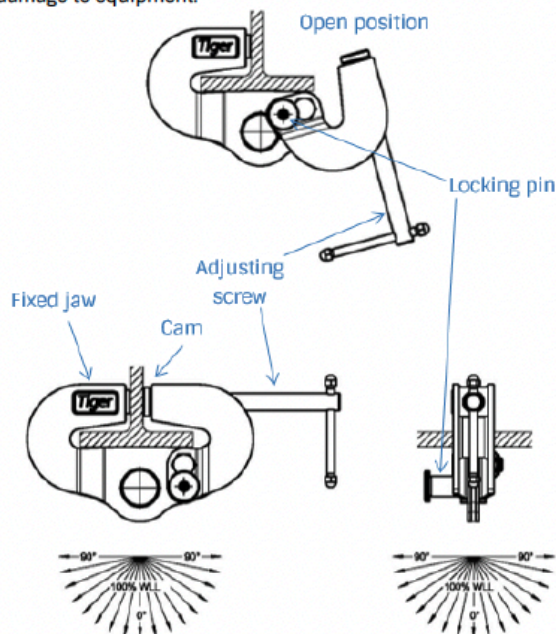


2. Function/Operation

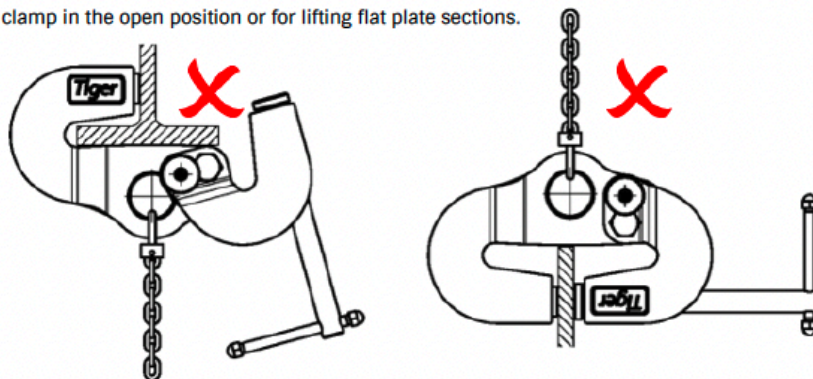
The Tiger BCU universal beam clamp can be used for lifting, pulling or as an anchor point. It is designed for both vertical and side loading applications and can be loaded at any angle. It has its full rated capacity at any lifting angle.

The clamp secures to the web of the I-Beam, while the throat of the clamp pinches the flange during side loading for positive contact during lifting or suspending applications.

Apply the clamp to the beam in the open position. To open the clamp, release the locking pin and fully open the moving side arm. Apply the fixed arm of the clamp to the rear of the beam. Close the moving arm of the clamp into position ensuring that the clamp is fully closed and the locking pin re-engages. Tighten the clamp onto the web of the beam using the adjusting screw. The adjusting screw must be fully hand tight before any load is applied; failure to do so could result in serious injury to persons or damage to equipment.



Do not use the clamp in the open position or for lifting flat plate sections.





The working load limit specified on the label/name plate is the maximum load which can be applied to the product in service. The clamp must only be attached to structures which are approved and recommended to carry or sustain the maximum safe working loads which will be applied.

We advise that structural calculations are carried out on all beams and supporting steel work by qualified engineering departments to ensure safe operation.

! WARNING

All clamps should be installed correctly onto the beam by a competent person and fully tightened by hand. All lifting operations should be fully risk assessed by a competent person before commencing any operation.

Before removing it from a beam, make sure there is no load on the beam clamp.

If two clamps are to be used in tandem the use of ancillary equipment may also be necessary, eg spreader beam. Care must be taken to ensure no one clamp takes more than its working load limit (WLL).

The BCU beam clamp is designed for static use. Moving the position of the beam clamp should only be carried out by a qualified person and must never be done while the clamp is loaded.

! WARNING

- Never** use beam clamps which are unidentified or uncertified for lifting applications.
- Never** replace bolts, shackles etc without consulting the supplier or an authorised repairer.
- Never** throw or drop beam clamps.
- Never** use beam clamps on damaged or distorted beams.
- Never** force or wedge hooks of lifting appliances into the anchor point.
- Never** attach a load, hoist or any other object to any part of the clamp other than the anchor point.
- Never** attempt to move the beam clamp under load.
- Never** allow a load attached to the beam clamp to swing or spin.
- Never** work near or under suspended loads.

3. Inspection

According to national and international accident prevention and safety regulations (for example LOLER for the UK), hoisting equipment must be inspected:

- in accordance with the risk assessment of the operating company
- prior to initial operation
- before the unit is put into service for any subsequent use
- after substantial changes
- however, at least once per year, by a competent person.

Note: Actual operating conditions (e.g. operation in galvanizing facilities) can dictate shorter inspection intervals.

The intervals of inspection must be determined by the individual application and are based upon the type of service to which the beam clamp will be subjected.

In the event of any defects refer the clamp to a Competent Person for thorough examination.

Examinations should include the following:

- Examine side arms for wear and distortion.



- Examine adjusting screw for straightness and function. Check threads for damage, wear and stretch.
- Examine cam jaw assembly for wear, broken grips and distortion.
- Examine fixed jaw for wear and broken grips.
- Examine locking pin for wear and distortion.
- Examine adjusting screw handle for distortion and loose bar end stops. Ensure it is not bent or damaged.
- Examine pivot bolt for wear and distortion.
- Examine fixed block in moving arm for worn or damaged threads.
- Examine for loose or missing fasteners, stops or nameplates.
- Examine for corrosion.
- Examine for illegible labels and markings.

An Inspection Log is included in Chapter 9 for making a dated record of any required inspections.

4. Maintenance

The equipment should not be dismantled for cleaning or maintenance, except by an authorised competent person. Beam clamps should be cleaned and any moving parts should be lubricated. All fastenings should be correctly secured.

5. Transport, Storage, Decommissioning and Disposal

Transporting the unit:

- Do not drop or throw the unit, always deposit it carefully.
- Use suitable transport means. These depend on the local conditions.

Storing or temporarily taking the unit out of service:

To ensure the continuing integrity of the unit you should store the unit in conditions that do not lead to damage or deterioration. Therefore:

- Inspect beam clamps and accessories before placing into storage.
- **Never** return damaged beam clamps to storage.
- The unit should be secured against unauthorised and unwarranted use.
- Store the unit in a clean and dry place.
- Wipe off all dirt and water.
- A light oil film should be applied to moving parts.
- Protect the unit including all accessories against contamination, humidity and damage by means of a suitable cover.
- Protect against corrosion.
- If the unit is to be used again after it has been taken out of service, it must first be inspected again by a competent person.

Disposal

When the product comes to the end of its lifecycle, after taking the unit out of service, recycle or dispose of the parts of the unit respecting local and national environmental regulations.

6. Manufacturer Testing and Verification

This product was manufactured under our single-unit control of quality and was passed with strict inspection in accordance with our inspection standards.

Capacity (tonne)	WLL (kg)	Test Load (kg)
3	3000	4500
5	5000	7500
10	10000	15,000

The operating temperature range is -50°C (-58°F) to +50°C (+122 °F).

Declaration of Conformity

Tiger BCU Beam Clamps have a 5:1 factor of safety. They are tested in line with the requirements within applicable sections of ASME B30.20 and EN13155:2003+A1:2009. All items comply with the essential health and safety requirements of the Machinery Directive 2006/42/EC. Tiger beam clamps are third party verified by SGS Certificate Number MDC 1302.



7. Product Warranty and Warnings

Definitions

'Customer' means the individual, firm, company or other party with whom the Company contracts;

'Company' means Woo Sing Industrial Co., Ltd;

'Contract' the contract between the Company and the Customer for the sale and purchase of this product;

'Defective Goods' goods, parts or materials, which by reason of fault or incorrect design or workmanship, are found to be defective or fail or are unable to perform in accordance with a Contract;

One Year Limited Warranty

The Company makes every effort to assure that its products meet high quality and durability standards and extends the following warranty to the Customer of new products manufactured by the Company:

1. The Company warrants that this product, when shipped, shall be free from defects in materials and workmanship under normal use and service and the Company shall, at its election, repair or replace free of charge any Defective Goods, provided that all claims for defects under this warranty shall be made in writing immediately upon discovery and, in any event, within one (1) year from the date of purchase of this product by the Customer and provided, further, that Defective Goods shall be kept for examination by the Company or its authorised agents or returned to the Company or an authorised service centre upon request by the Company.
2. The Company does not warrant components of products provided by other manufacturers. However to the extent possible, the Company will assign to the "Purchaser" applicable warranties of such other manufacturers.
3. Except for the repair or replacement mentioned in (1.) above, which is the Company's sole liability and Customer's exclusive remedy under this warranty, the Company shall not be responsible for any other claims arising out of the purchase and use of this product, regardless of whether the Customer's claims are based on breach of contract, tort (including negligence), breach of statutory duty, or otherwise, including claims for any loss of profit, goodwill or business opportunity or any indirect or consequential loss arising under or in connection with the Contract.
4. This one year limited warranty is conditional upon the installation, maintenance and use of this product pursuant to the product manuals prepared in accordance with content instructions by the Company. The warranty on this product does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents. This warranty does not apply if the product has been subjected to improper fittings, alignment or maintenance.
5. The Company shall not be responsible for any loss or damage caused by transportation, prolonged or improper storage or normal wear and tear of this product or for loss of operating time.
6. This warranty shall not apply to this product if it has been fitted with or repaired with parts, components or items not supplied or approved by the Company or which have been modified or altered.
7. The Company limits all implied warranties to the period specified above from the date the product was purchased by the Customer.
8. Except as stated herein, any implied warranties or merchantability and fitness are excluded.

If our inspection discloses a defect, the Company will repair, replace the product or refund the purchase price, if we cannot readily or quickly provide a repair or replacement and if you are willing to accept such refund. The Company will return repaired or replacement products at The Company's expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of Tiger Lifting's warranty, then the Customer must bear the cost of storing and retrieving the product.

! WARNING

The use of this product is beyond the control of Tiger Lifting. The warranty of this product is limited to the replacement cost of this product should it be found to be defective in material and/or workmanship. The warranty is void if the beam clamp is damaged, worn or used improperly. Normal wear and tear is not considered grounds for replacement. The Tiger Lifting product warranty does not apply where there has been excessive overloading of the beam clamp.

Disclaimer

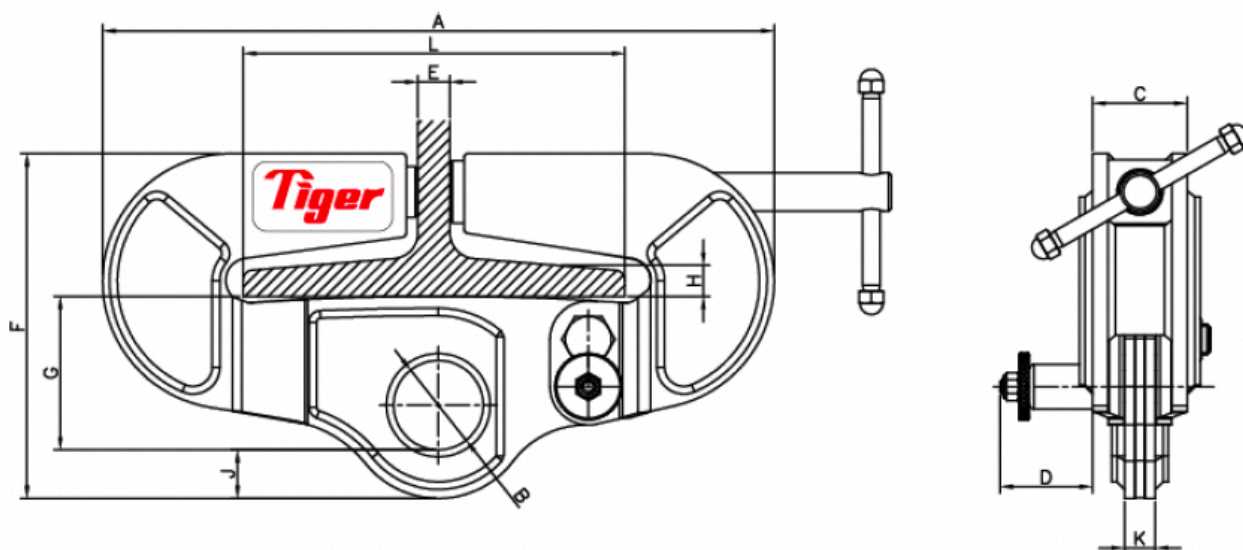
We believe that the information in this document, including technical information and any advice, is reliable although we give no guarantee as to its accuracy or completeness. The user of our products must determine if the product, either used alone or conjunction with other products, is suitable for their purpose and assumes all risk and liability in connection with those decisions. We have made every effort to make sure this document is accurate. The information contained in this document does not form part of any contract.

Please also refer to our terms and conditions which can be found at: www.tigerlifting.com/terms-conditions/



8. Technical Data

Product Code	Capacity (tonne)	Dimensions (mm)											Weight (kg)
		A	B	C	D	E	F	G	H	J	K	L	
BCU-0300	3.0	387	60	70	63	32	235	100	25	28	20	125-204	15.5
BCU-0500	5.0	524	70	74	72	32	270	120	25	38	24	125-305	27.0
BCU-1000	10.0	524	70	75	82	32	278	120	25	38	25	125-305	31.0



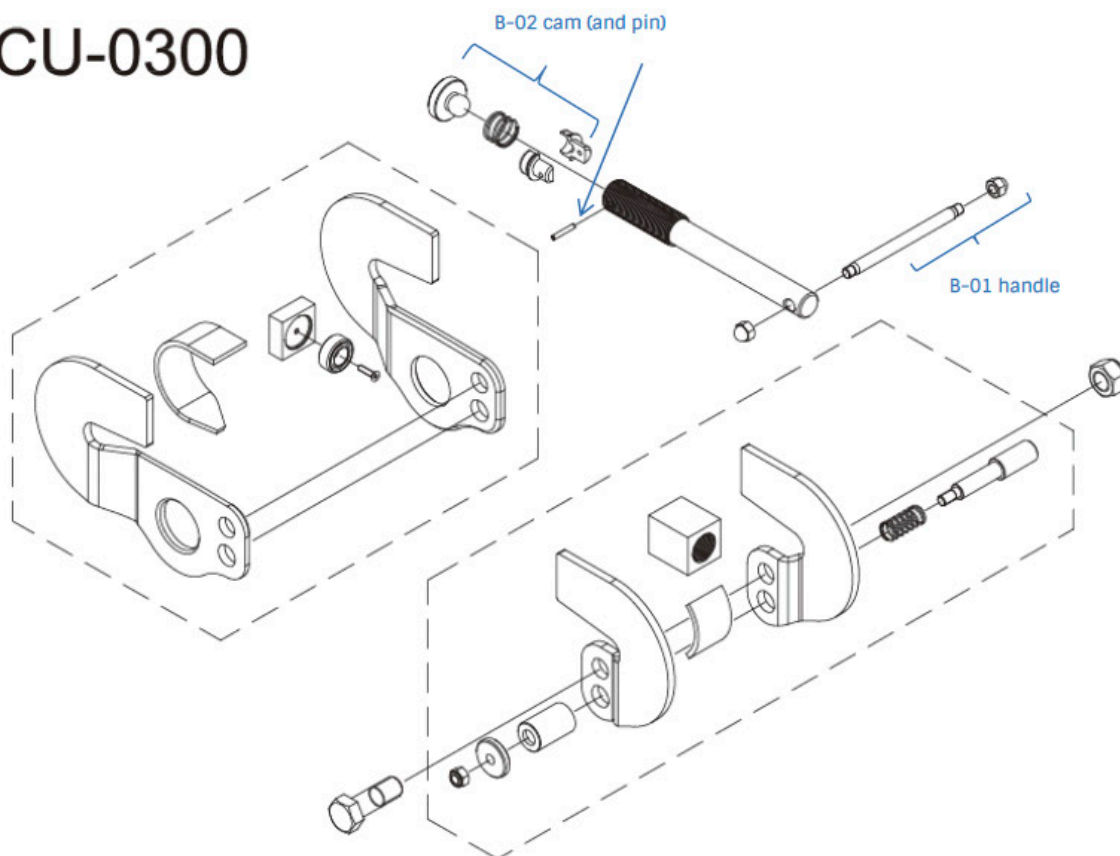
Due to our policy of continual product development, dimensions, weights and specifications may change without prior notice.



9. Exploded Diagrams

The following diagram is intended to clarify terms that appear in the Product Operation and the Inspection and Maintenance chapters.

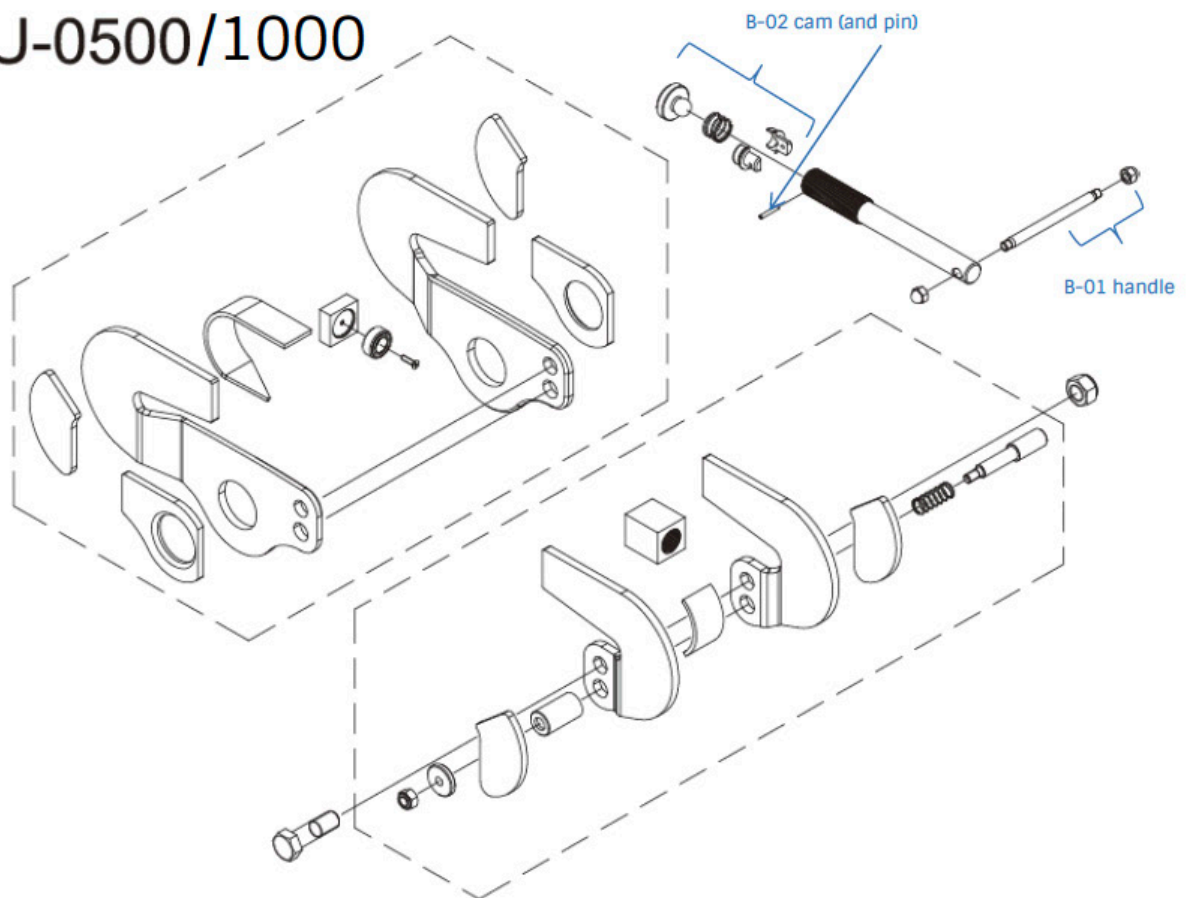
BCU-0300



Replacement parts available are B-01 handle and B-02 Cam and pin.



BCU-0500/1000



Replacement parts available are B-01 handle and B-02 Cam and pin.

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10. Inspection Log

Test Certificate/DOC Number	Model Number	Product Description

Date put into service	Serial Number

Date	Comments	Signature



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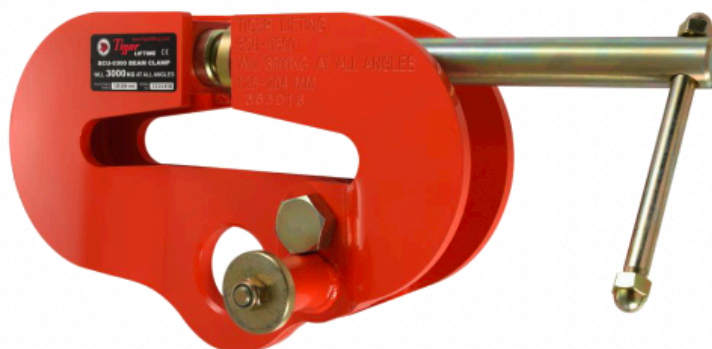


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