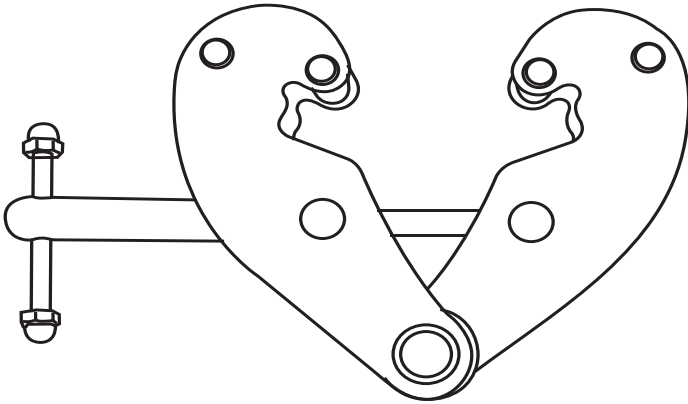




USER MANUAL



XT-MBC2T Steel Beam Clamp

For Hanging Truss & Line Arrays

Max Load: 2-Ton | Jaw Size: 3" to 7.5"



www.proxdirect.com

WARNING

This equipment should not be installed, operated or maintained by any person who has not read and understood all the contents of this manual. Failure to read and comply with the contents of this manual can result in serious bodily injury, death, and/or property damage. Record the code and serial number in the space provided below.

Important Information and Warnings

1.1 Terms and Summary

This manual provides important information for personnel involved with this product's installation, operation and maintenance. Although you may be familiar with this or similar equipment, it is strongly recommended that you read this manual before installing, operating or maintaining the product.

DANGER

Danger, Warning, Caution, and Notice - Throughout this manual, there are steps and procedures that can present hazardous situations. The following signal words are used to identify the degree or level of hazard seriousness.

These general instructions deal with the normal installation, operation, and maintenance situations encountered with the equipment described herein. The instructions should not be interpreted to anticipate every possible contingency or to anticipate the final system, crane, or configuration that uses this equipment. For systems using the equipment covered by this manual, the supplier and owner of the system are responsible for the system's compliance with all applicable industry standards, and with all applicable federal, state, and local regulations/codes.

Record your clamp's Code and Serial Number (Section 3) on the front cover of this manual for identification and future reference to avoid referring to the wrong manual for information or instructions on installation, operation, inspection, maintenance, or parts.



CAUTION

Caution indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage. These general instructions deal with the normal installation, operation, and maintenance situations encountered with the equipment described herein. The instructions should not be interpreted to anticipate every possible contingency or to anticipate the final system, crane, or configuration that uses this equipment. For systems using the equipment covered by this manual, the supplier and owner of the system are responsible for the system's compliance with all applicable industry standards, and with all applicable federal, state, and local regulations/codes.

Record your clamp's Code and Serial Number (see Section 3) on the front cover of this manual for identification and future reference to avoid referring to the wrong manual for information or instructions on installation, operation, inspection, maintenance, or parts.

Equipment described herein is not designed for and **MUST NOT** be used for lifting, supporting, or transporting people, or for lifting or supporting loads over people.

Equipment described herein should not be used in conjunction with other equipment unless necessary and/or required safety devices applicable to the system, crane, or application are installed by the system designer, system manufacturer, crane manufacturer, installer, or user. Modifications to upgrade, rerate, or otherwise alter this equipment shall be authorized only by the original equipment manufacturer.

If equipment is used as a below-the-hook lifting device, refer to ANSI/ASME B30.20, "Safety Standard for Below-the-Hook Lifting Devices". As an above-the-hoist device, refer to applicable portion of ANSI/ASME B30.16. Clamps used to handle hot molten material may require additional equipment or devices. Refer to ANSI Z241.2, "Safety Requirements for Melting and Pouring of Metals in the Metal casting Industry".

Failure to read and comply with any one of the limitations noted herein can result in serious bodily injury or death, and/or property damage.

2.0 Technical Information

2.1 Specifications

2.1.1 Operating Conditions and Environment:

Temperature Range: -4° to +140°F (-20°C to +60°C)

Humidity: 100% or less

This is not underwater device.

Material: No special materials such as spark resistant. **Do Not Use:** In an alkaline/acidic or an organic solvent/explosive atmosphere.

2.1.1 Clamp Specifications:

Capacity (TON)	Flange Range (in)	Max Beam Flange Thickness (in)	Net Weight (lbs)
2	3.00 to 7.50	0.83	9

3.0 Pre-Operational Procedures

3.1 Mounting Location

When used as a suspension device, ensure that the suspension and the supporting structure is adequate to support the clamp, the hoist and its loads. If necessary, consult a professional that is qualified to evaluate the adequacy of the suspension location and its supporting structure.

3.2 Optional Suspender

3.2.1 Refer to the Parts List in section 8.0 for the installation of optional suspender parts.

3.3 Mounting/Using the Clamp

3.3.1 Mount the beam clamp to a supporting structure over the work area. Position the jaws over the lower beam flange and tighten the clamp by rotating the clamp handle clockwise to secure it in place.

3.3.2 For use of the clamp as a lifting device, suspend the clamp from the hoist bottom hook. Position the load in between the jaws and tighten the clamp by rotating the handle clockwise.

Be sure that the load is fixed in between the clamp jaws securely. The clamp should be attached to the load at a place to ensure the load is evenly distributed and balanced.

3.4 Preoperational Checks and Trial Operations

3.4.1 Confirm the adequacy of the rated capacity for all clamps and all other components of lifting system before use. Inspect all load suspension members for damage prior to use and replace or repair all damaged parts.

3.4.2 Record the clamp's Code and Serial Number (from the name plate on the clamp; see Section 8.0) in the space provided on the cover of this manual.

3.4.3 Ensure that the clamp is properly installed to a fixed point.

3.4.4 Ensure that all nuts and bolts are sufficiently fastened. (Continued on next page)

4.0 Operation/Use

4.1 Introduction



WARNING: Clamp users should be trained in proper rigging procedures for the attachment of the clamp to the loads.

Clamp users should be trained to be aware of potential malfunctions of the equipment that require adjustment or repair, and to be instructed to stop operation if such malfunctions occur, and to immediately advise their supervisor so corrective action can be taken.

Clamp users should not have a history of or be prone to seizures, loss of physical control, physical defects, or emotional instability that could result in actions of the operator being a hazard to the operator or to others.

Clamp users should not use a clamp or operate lifting system when under the influence of alcohol, drugs, or medication.

Clamp is intended only for vertical lifting service or freely suspended unguided loads. Do not use clamp for loads that are not lifted vertically, loads that are not freely suspended, or loads that are guided.

4.2 Do's and Do Not's Operation

Improper operation of a clamp can create a potentially hazardous situation that, if not avoided, could result in death, serious injury, and substantial property damage. To avoid such a potentially hazardous situation

The DO NOT's

- DO NOT lift more than the rated load for the clamp.
- DO NOT use a clamp which has been modified without the approval of manufacturer or certification to be in conformity with applicable OSHA regulations.
- DO NOT use a clamp when the lifting system is restricted from forming a straight line from the mounting point to the loading point in the direction of loading.
- DO NOT use a damaged clamp.
- DO NOT operate a malfunctioning or unusually performing clamp.
- DO NOT use a clamp to lift, support, or transport people.
- DO NOT lift loads over people.
- DO NOT remove or obscure the warnings on the clamp.
- DO NOT use the clamp in such a way that could result in shock or impact loads being applied to the clamp.
- DO NOT leave load supported by the clamp unattended unless specific precautions have been taken.
- DO NOT use a clamp that is tagged "Out of Service" or otherwise designated as nonfunctioning.
- DO NOT use a clamp on which the safety placards or decals are missing or illegible.

The DO's

- Make sure the temperature of the load does not exceed the maximum allowable limits of the lifter.
- Be familiar with clamp adjustments, procedures, and warnings.
- Make sure the unit is securely attached to suitable support

before applying load.

- Make sure clamp, slings, and attachments are properly sized and rigged.
- Make sure the hoist attached to the clamp is supported at the hook saddle.
- Make sure the load is balanced and load-holding action is secure before continuing.
- Make sure all persons stay clear of the supported load.
- Report Malfunctions or unusual performances of the clamp and
- remove the clamp from service until the malfunction or unusual
- performance is resolved.
- Warn personnel before lifting or moving a load.

5.0 Inspection

5.1 Initial Inspection - Prior to initial use, all new, altered, or modified clamps shall be inspected by a designated person to ensure compliance with the applicable provisions of this manual.

5.2 Inspection Classification

Table 5-2 Inspection Intervals		
Service	Frequent Inspection	Periodic Inspection
Normal Service	Monthly	Yearly
Heavy Service	Weekly to Monthly	Semi-annually
Severe Service	Severe Service	Quarterly
Special or Infrequent Service	As recommended by a qualified person before and after each occurrence.	As recommended by a qualified person before the first such occurrence and as directed by the

5.3 Every Lift Inspection

5.3.1 Inspections should be made before and/or during every lift in accordance with Table 5-3, "Every Lift Inspection." The operator shall inspect for any indication of damage, including observations during operation for any damage that might occur during the lift.

Table 5-3 Every Lift Inspection
Surface of the load for debris
Condition and operation of the controls and moving/functional components.

Table 5-4 Frequent Inspection
All functional operating mechanisms for proper operation and adjustment, maladjustment.
Lifting system components for deformation, cracks, or significant wear.
Structural members for deformation, cracks, or excessive wear.
Loose or missing fasteners, nameplates, and warning labels.



6.0 Maintenance

6.1 For clamp maintenance or storage, comply with the following points.

- Possibility of corrosion on components of the clamp increases for installations where salt air and high humidity are present. Make frequent and regular inspections of the clamp's condition and operation.
- Do not store the clamp while supporting a load.
- Remove any dirt or water on the clamp.
- Store the clamp in a dry and clean area.
- Perform all inspections given in "5.0 Inspection" if irregularity of the clamp is found after operation.

6.2 Disassembly Assembly

6.2.1 When re-assembling the clamp, refer to parts list figure in Section 8.0 for the proper component placement and orientation.

7.0 Parts List

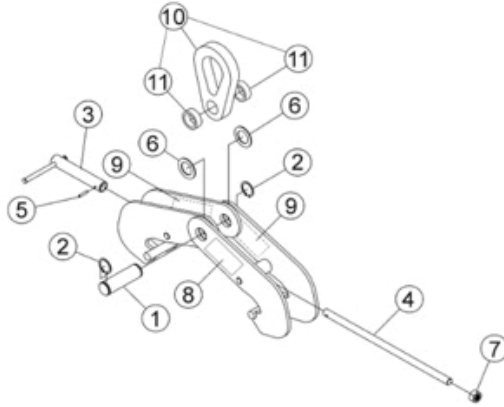


Figure Number	Part Name	Parts (Per Clamp)	2-Ton
1	Main Pin	1	UBC10019201
2	Snap Ring*	2	9004929
	Spiral Retaining Ring	2	9015701
3	Clamp Handle	1	UBC1 0008282
4	Clamp Screw	1	UBC1 003075
5	Spring Pin	1	90054100
6	Bushing	2	UBCC8888016
7	Lock Nut	1	UBC36786
8	Name Plate	1	80192
9	Warning Tags	1	80190
10	Suspender (Optional)	1	SK2
11	Suspender Spacer	2	UBC1001922

Performance Parameter

				Net Weight(kg)
Model	Lifting Cap.(kg)	Test Load(kg)	Jaw Opening (mm)	Net Weight (kg)
2T	2000	2500	75-220	4.6

8.0 Warranty 1-Year Limited Warranty

QUICK INSTRUCTIONS

ProX **XT-MBC2T** beam Clamps are designed to be used as a temporary or permanent fixed position lifting point for overhead rigging without drilling or welding. Beam Clamps are designed also to reduce the I-beam flange stress by distributing loads away from the flange edges during overhead lifting applications.

Using beam clamps safely

Ensure that the beam clamp is of correct capacity for the load being lifted and that the beam will not be damaged by localized overloading.

Ensure that the clamp is fitted correctly over the center of gravity of the item being lifted and will not be subjected to side loading. Before lifting a load, ensure that the clamp has been tightened and that the lifting appliance is fitted correctly into the eye of the clamp.

In-service inspection and maintenance

Ensure that beam clamps are kept clean and moving parts are lubricated. Regularly inspect beam clamps for wear, damage, distortion, cracks, and any defects likely to cause danger. If any of the above defects are found, remove the beam clamp from service and refer to a experienced professional.

