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**1: INTRODUCTION TO BARREL MOUNT APPLICATIONS**

Congratulations on your purchase of a BTS Pro-Series Fixed Barrel Mount as part of your Safety at Heights equipment.

The Barrel Mount is constructed of heavy duty zinc-plated steel for rugged performance in a demanding environment.

The Barrel Mount is designed to install over existing vertical structures such as shoring walls, tank edges, parapets or similar structures to provide a mounting base for all standard BTS davits in various confined space safety, fall protection, and rescue applications.

This product has been specifically designed and carefully manufactured to provide reliable operation.

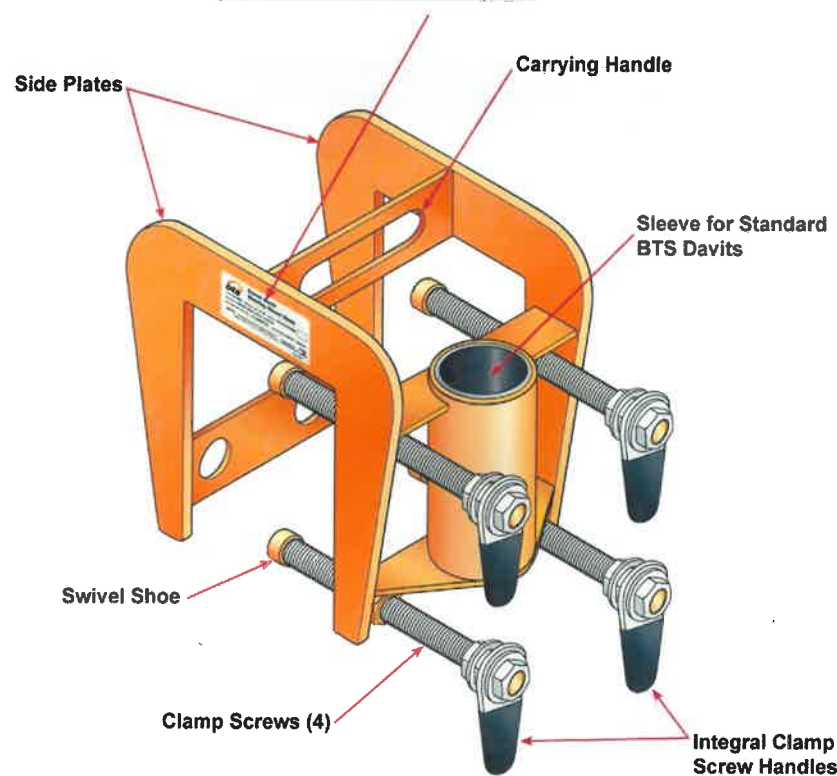


Figure 1. Barrel Mount Parts and Location Identification

## 2. APPLICATION RESTRICTIONS

There are restrictions and limitations that must be carefully considered in the selection, installation and operation of this type of equipment. Serious injury or death may result from failure to consider these factors.

This product is only warranted when used in accordance with these instructions and only when using a BTS davit.

### 2.1 CAPACITY

This product is designed to support a single davit up to its rated working capacity (or 21kN maximum).

### 2.2 MOUNTING REQUIREMENTS

Structures selected for the installation of this sleeve **MUST BE** capable of supporting a minimum 10,000N.m moment and 21kN vertical load or **MUST BE** approved by a Qualified Person so as to maintain an appropriate safety factor for the given application(s) as specified in applicable regulations.

### 2.3 SITE CHARACTERISTICS, PHYSICAL and ENVIRONMENTAL FACTORS

Work sites have associated with them any number of hazards related to the site itself. These may include, but are not limited to, poisonous or explosive atmospheric conditions, poisonous or corrosive chemical hazards, hot surfaces, electrical hazards, sharp edges, engulfment hazards, or moving machinery.

All of these factors must be taken into consideration when selecting equipment for a given application.

Activities involving working at heights and confined spaces require the use of equipment to protect the worker in the event of a fall or injury. Suitable fall protection and recovery / rescue equipment must be provided as required by applicable local regulations when using the Barrel Mount.

## 3. INSTALLATION & SET-UP

The Barrel Mount must be inspected before each use as outlined in Section 5.

Any problems must be reported immediately to your supervisor and the equipment labelled so as to prevent further use until it has been repaired.

Install the Barrel Mount over an approved supporting structure as shown in Figure 2 below. Tighten Clamps Screws to 65N.m or as deemed tight enough by a competent person using the integral handles provided. Do not use larger tools or any kind of an extension on these handles.

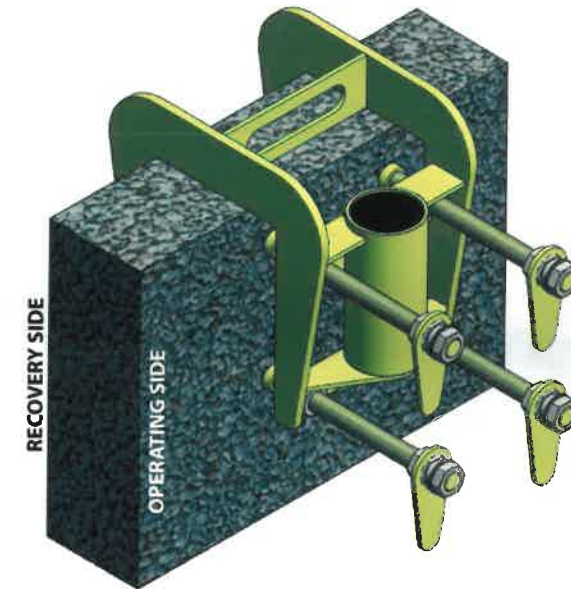


Figure 2. Attaching Typical Barrel Mount to Supporting Structure.

Install the Davit and any other system accessories following the instructions supplied with your BTS davit

### 3.1 SYSTEM OPERATION

Once the equipment has been installed as described above, proceed with the work ensuring that all site specific safety conditions and the codes of practice are adhered to.

## 4. TRAINING

Any worker using the Barrel Mount must receive appropriate training from their employer on all equipment and procedures involved prior to operating. Users must fully read and understand this manual and any other instruction manual(s) related to the system being used or have the instructions explained to them before using this equipment. In most states and territories operators need documented training from approved RTO's to work at heights or in confined spaces.

**5. INSPECTION**

**5.1 DAILY INSPECTION**

The Barrel Mount must be cleaned and inspected before each use as described in Sections 6.1 & 5.1.2.

Report any problems or concerns to your supervisor, tag the equipment "OUT OF SERVICE" until repaired or replaced.

**5.1.1 Cleaning and Lubrication**

If required, clean and lubricate the Barrel Mount and all its parts as outlined in Section 6. Do not use solvents or other chemicals to clean the base.

**5.1.2 Physical Damage**

Inspect the Barrel Mount and all accessories for physical damage ie bent parts, loose or missing hardware or parts or illegible labels (see Figure 3). Replacement labels are available from BTS.

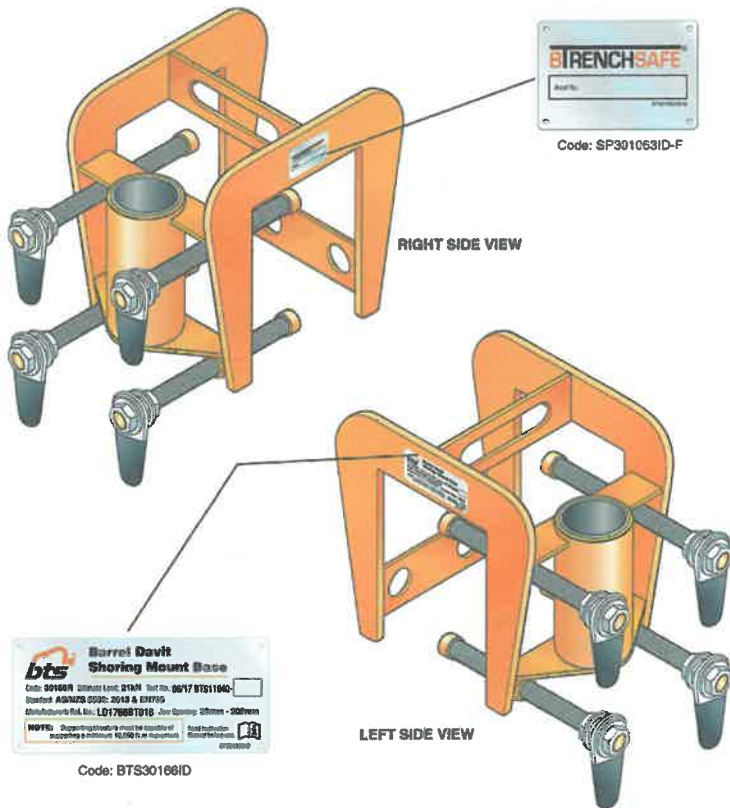


Figure 3, Typical Barrel Mount Labels

While cosmetic damage will not affect the structural integrity of the Barrel Mount, a seriously damaged unit **MUST BE** removed from service and returned to an authorized service center for repair prior to further use.

Additionally, inspect any accessories being used with the Barrel Mount as instructed in the Operators Manual provided by BTS at the time of purchase.

- Ensure that the nuts on the end of the clamping screws are in place and tight (Loctite or a similar thread locking material is recommended to ensure the nuts remain secured).
- Inspect the base, ensuring it is not damaged and is free of dents, distortion, cracks, corrosion or other damage. Pay close attention to the welds around the barrel.
- Ensure the clamp screws open and close properly.
- Inspect the swivel shoes on the end of the clamp screws for rotation and ensure that they are secured in place. If they are missing or damaged remove the clamp from service.
- Check if any bolts, shoes or handles are missing or have been substituted or altered.
- Ensure all labels are present and fully legible (see Figure 3).
- Inspect other system components (Davit Arm, Karabiners, SRL, etc.) as per associated manufacturer's instructions.

**5.2 ANNUAL INSPECTION**

At least annually and more frequently if subjected to harsh conditions or excessive use, the Barrel Mount **MUST BE** given a detailed inspection by a competent person as described below and the results recorded in an Inspection Log. A sample Inspection Log is provided at the rear of this manual, please make photocopies of this sample to record all inspection results.

NOTE: Any time equipment is returned to a factory authorized service center for repair, please provide photocopies of all previous Inspection Log sheets for that product to assist with diagnosis and processing of any warranty claims.

Please obtain a Returned Goods Authorization number from the service centre before sending your equipment for service.

**5.2.1 Inspection Procedure**

Following the instructions contained in Section 5.1.2, inspect the Barrel Mount for physical damage and Record the results in the Inspection Log.

When inspecting the Fixed Barrel Mount ensure that it is at a suitable height (preferably a work bench and that there is appropriate lighting). The unit will need to be fully inspected, this means that it will have to be tipped upside down so that the welds and frame can be checked for defects.

Ensure that all welds are inspected (including the welds around the nuts holding the adjusting screws).

**IMPORTANT:** Be sure to review any previous inspection records to be aware of existing concerns and to allow for re-inspection of any potential problem areas. Cumulative findings may lead to the need for repair or replacement when looked at together.

**6. MAINTENANCE, LUBRICATION & STORAGE**

The Barrel Mount has been designed to provide many years of trouble free service and requires little in the way of routine maintenance.

Any loose fasteners should be tightened where possible, with the Barrel Mount being sent to a factory authorized service centre for inspection and repair as necessary.

Basic cleaning should be performed at least annually (as outlined in Section 6.1) as part of the annual inspection or more frequently as required when used under harsh conditions.

**6.1 Cleaning the Barrel Mount**

Use a solution of warm water and a mild detergent to clean the Barrel Mount and its labels. Do not use solvents or other cleaners to clean the base, as this may result in damage to the HDPE barrel sleeve, the adhesive that holds it in place and also the surface finish.

**6.2 Clamp Screw Lubrication**

After cleaning and inspection as instructed in Section 5, apply graphite solution or similar moisture displacing penetrating lubricant as required and wipe away any excess with a clean cloth (only to be applied sparingly on the thread). Do not apply oil, grease or other lubricants that may attract and trap contaminants.

**6.3 Parts Considered Normal Wear and Tear for Warranty Purposes**

Sleeve liner, Product Labels and Clamp Screw assemblies are subject to wear as part of normal operation and are not covered under warranty unless found to contain defects in material or manufacturing.

**7. SPECIFICATIONS**

Pro-Series Barrel Mount Sleeves are constructed of high quality steel. Steel parts are zinc plated for corrosion resistance. Hardware is zinc plated, minimum Grade 5.

Sleeve liner material is HDPE Pipe

Barrel Mount Weights:

- Code: 30166      178mm Throat:    20.5kg
- Code: 30166R    205mm Throat:    25.0kg

**DIMENSIONS:**

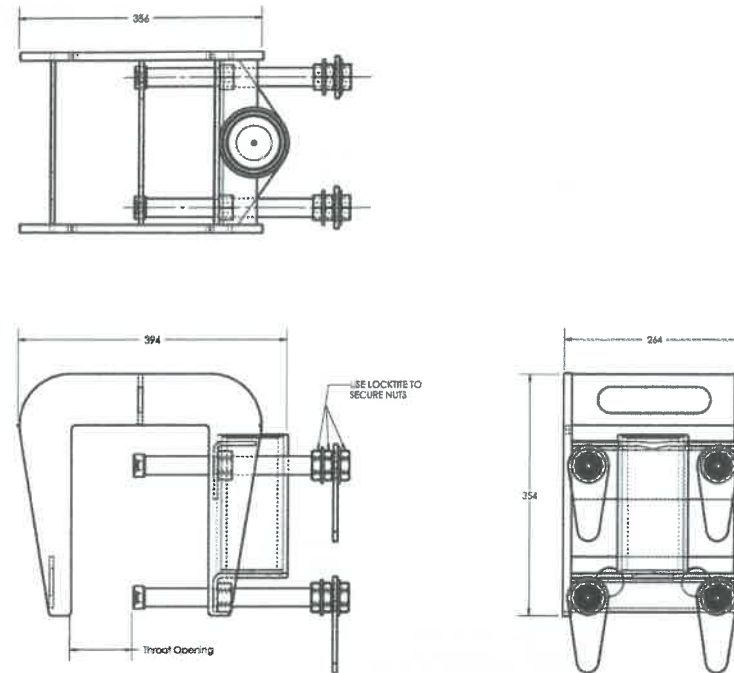


Figure 4, Barrel Mount Dimensions

- Code: 30166      178mm Throat:    5 - 178 mm
- Code: 30166R    205mm Throat:    20 - 205 mm



8. PRO-SERIES BARREL MOUNT INSPECTION LOG

Product Model Number: \_\_\_\_\_

Product Serial Number: \_\_\_\_\_

Date of Manufacture (dd/mm/yy): \_\_\_\_\_

Purchase Date (dd/mm/yy): \_\_\_\_\_

INSPECTION ITEM	PASS	FAIL	DETAILS / LOCATION of DAMAGE	OUTCOME (REPAIRED / SCRAPPED)	APPROVED FOR USE BY:
Inspect the base, ensuring it is not damaged and is free of dents, distortion, cracks, corrosion or other damage.					
Ensure the clamp screws open and close properly.					
Inspect all bolts and nuts. Make certain they are securely attached and tight. Check if any bolts, nuts or other fasteners are missing or have been substituted or altered.					
Ensure all labels are present and fully legible. See section 5.1.2.					
Inspect other system components (Davit Arm, Karabiners, SRL, etc.) as per associated manufacturer's instructions.					

If inspection or operation reveals a defective condition, remove the System from service immediately and contact an authorized service centre for repair.

Date of Inspection: \_\_\_\_\_

Inspected By: \_\_\_\_\_

The information set out in this manual has been compiled from supplier reference data including third party sources. BTS believes that the information is accurate and reliable, though we do not make or give any warranty (other than implied by statute which may not be excluded) with respect to the information. By using this information, the user undertakes not to hold BTS liable or responsible in any way whatsoever in relation to consequential losses from such use.



9. WARRANTY INFORMATION

1 Year Limited Warranty – BTS/W - 0112

Beaver Technology Services Pty Limited (BTS) offers a one year limited warranty on this product.

This warranty is applicable from 1st January 2012 and supersedes all previous warranties

BTS, a part of the Beaver Group, warrants to the original retail consumer and purchaser that this product will be free from defects in materials and workmanship for one year from the date the product was purchased ('the warranty period').

BTS will rectify any defect in materials or workmanship appearing within the warranty period by repairing or replacing the product. BTS will offer a refund of the purchase price if the product cannot be readily and quickly repaired or replaced. BTS reserves the right to determine whether the product contains any defects in materials or workmanship covered by this warranty.

The benefits offered by this warranty are in addition to your rights and remedies that may apply by law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure. You are also entitled to have the goods repaired or replaced if the goods fail to meet the standard specified or quoted and the failure does not amount to a major failure.

How to make a warranty claim

To make a claim under this warranty, the product or part must be returned for examination, during the warranty period, to an authorised service centre nominated by BTS together with proof of purchase such as the dated sales receipt and an explanation of the problem to be rectified. An authorised service centre can be identified by contacting BTS at the address or telephone number set out below.

Any costs incurred in making a claim under this warranty or returning the product to an authorised service centre is to be borne by the person making the claim unless otherwise agreed by BTS. If BTS determines the product contains a defect in materials or workmanship that is covered by this warranty then BTS will bear the cost of returning the repaired product or replacement product to the person making the claim. If BTS determines the product does not contain a defect in materials or workmanship covered by this warranty then the cost of returning the product will be at the expense of the person making the claim.

Exclusions

This warranty does not apply to any defect caused by, or associated with misuse, abuse, lack of maintenance, negligence or accidents, repairs or alterations not authorised by BTS.

Contact: **Beaver Technology Services Pty Limited**  
19 Bearing Road, Seven Hills NSW 2147

Website: [www.btstech.com.au](http://www.btstech.com.au)

