



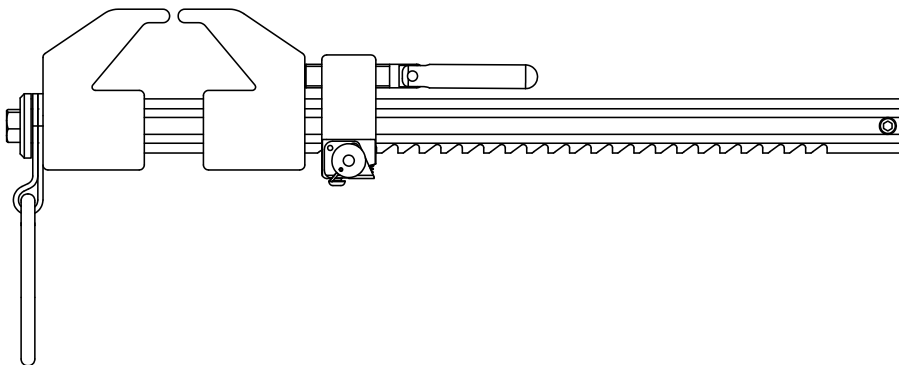
User Instruction Manual

Aluminum Beam Anchor

Model # TYAA141

Model # TYAA142

Model # TYAA143



MANUFACTURED BY:

Tiger Lifting/ Woo Sing Industrial Company Limited
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WARNING:

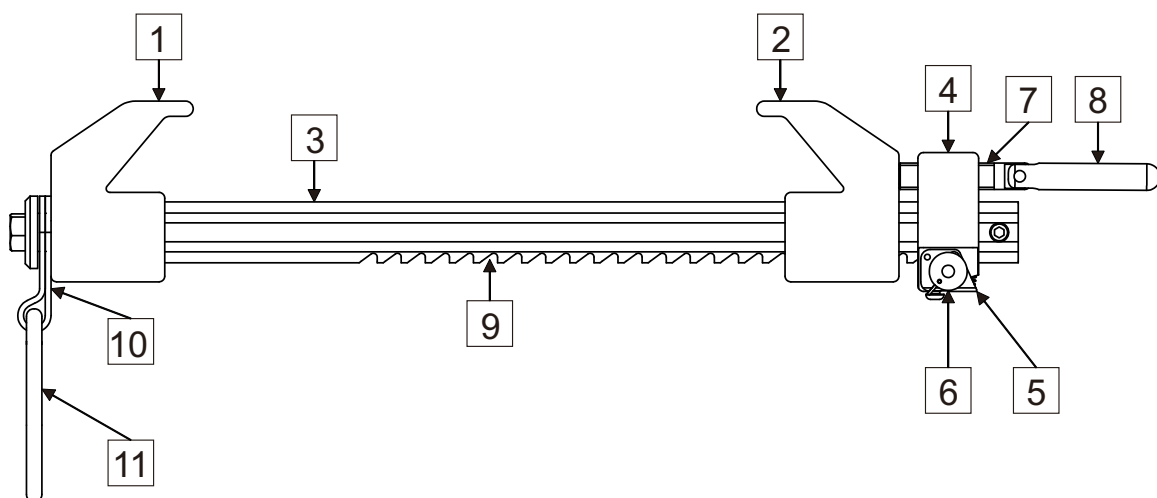
This product is to be used as part of a personal fall protection system. The user must read the manufacturer's instruction and be familiar with each component of the equipment. The user must fully understand this instruction and to be trained before using this equipment. This equipment should not be used for material lifting or any other use other than a fall protection system. This product is intended for one person using. Any alteration and misuse of this equipment, or failure to follow instructions, may result in serious injury or death.

Aluminum Beam Anchor [TYAA141~TYAA143](#) should only be used by a person who is trained and competent in its safe use. Fitness and age significantly affect a person's ability to safely withstand fall arrest loads. Only people who are physically and mentally fit and healthy, not under the influence of drugs or alcohol, are suitable to use this equipment. Medical advice should be sought if a user's suitability is unclear.

IMPORTANT:

If you have questions on the use, care, installation or suitability of this Aluminum Beam Anchor for your application, please contact your dealers, distributors, or manufacturer for a guide.

Aluminum BEAM ANCHOR COMPONENTS



The Aluminum Beam Anchor consists of the following components:

- | | |
|---------------------------|-------------------------------------|
| 1. Fixed Clamp | 7. Clamp Adjusting Screw |
| 2. Sliding Clamp | 8. Tightening Handle |
| 3. Hexagonal Rod | 9. Positioning ratchet for Lock Pin |
| 4. Adjustment Block | 10. D-Ring Bracket |
| 5. Safety Lock | 11. Swivel D-Ring |
| 6. Quick Release Lock Pin | |

SPECIFICATIONS

Dimensions:

Beam Size Range, Model TYAA141 : 12-in. (305mm) Maximum
3.54-in. (90.0mm) Minimum
Model TYAA142 : 18-in. (457mm) Maximum
3.54-in. (90.0mm) Minimum
Model TYAA143 : 24-in. (610mm) Maximum
3.54-in. (90.0mm) Minimum
Flange Thickness, Model TYAA141 : 0.98-in. (25mm) Maximum
Model TYAA142 : 0.98-in. (25mm) Maximum
Model TYAA143 : 0.98-in. (25mm) Maximum

Materials:

All materials used in the construction of this equipment are as follows:

- Stainless Steel
- Anodized Alloy Aluminum
- Plated Alloy Steel

Signification of marking

XX XX XXX

month/year/batch No.

EN 795:2012

complies with EN 795

TYAA141

model of the product



manufacturer



read the instructions for use



complies with REGULATION (EU) 2016/425 OF
THE EUROPEAN PARLIAMENT

2849: No. of notified body involved in product checking



One person Use (EN795)

This product meets requirements of the standard EN 795:2012, TYPE B. and REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT.

Manufacturer:

Tiger Lifting/ Woo Sing Industrial Company Limited

No.70-13, Xiaguirou Mt., Tamsui Dist., New Taipei City 251, Taiwan

info@tigerlifting.com.tw

Notified body no. 1019 carried out a EU examination:

VVUU ,a.s., Pikartska 1337. Ostrava, Czech Republic

<http://www.vvuu.cz/en/>

Notified body no. 2849 Annual INSPECTION MODULE D

INSPEC International B.V

Beechavenue 54-62 1119 PW Schiphol-Rijk

The Netherlands

<https://www.inspec-international.com/>

Weight:

Model TYAA141 : 5.60LB(2.54KG)

Model TYAA142 : 6.24LB(2.83KG)

Model TYAA143 : 6.88LB(3.12KG)

APPLICATIONS

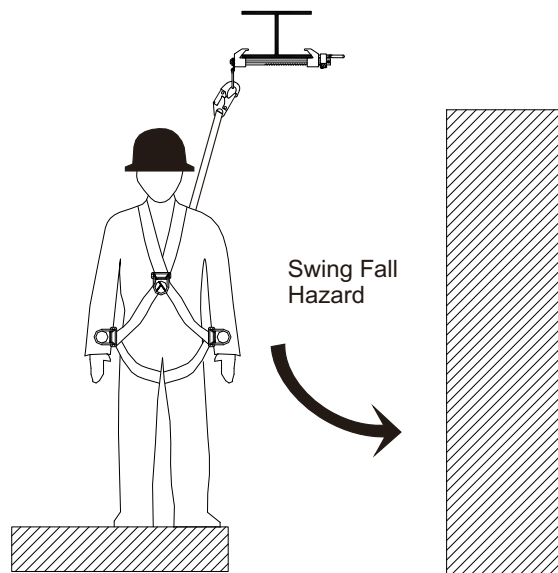
Purpose:

The Aluminum Beam Anchor is used as an anchorage connector for a personal fall arrest system. It's designed to be attached on the Horizontal or Vertical I-Beam. The Aluminum Beam Anchor might be used as an end termination for either a shock-absorbing lanyard or self-retracting lifeline for fall arrest, or with a positioning lanyard for fall restraint.

WARNING: Aluminum Beam Anchor **TYAA141~TYAA143** must be used within it's limitations and for the purpose for which it is intended. No attempt should be made to modify or repair the equipment. All instructions have to be followed to ensure the safety of the User.

Limitations:

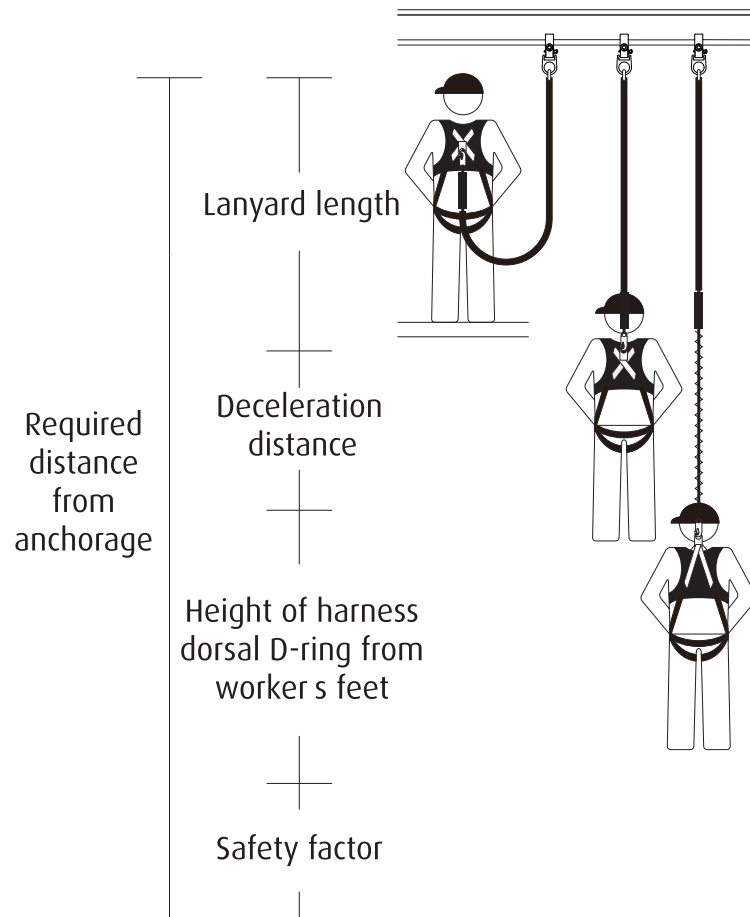
- **Beam Flange Sizes:** The Aluminum Beam Anchor may only be installed on beams with flanges within the adjustment range of the model. See the **SPECIFICATION**.
- **Capacity:** This Aluminum Beam Anchor is designed for one person use with a combined weight (clothing, tools, etc.) of no more than 310 lbs (140kgs). No more than one personal protective system may be connected to this equipment at one time.
- **Free Fall:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to a maximum of 6 feet. The maximum free fall must always be within the manufacturer's free fall capacity of the system components used to arrest the fall. When a free fall greater than 6 feet and up to a maximum of 12 feet if possible, **Tiger** recommends using a personal fall arrest system incorporating with an energy absorbing lanyard.
- **Swing Falls:** Before installing or using, make consideration for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. The user must always work as close to be in line with the anchor point as possible. Swing falls significantly increase the possibility of serious injury or death in the event of a fall.



Swing Falls

- **Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on the following safety factors:
 - ◆ Elevation of Aluminum Beam Anchor
 - ◆ Length of connecting subsystem
 - ◆ Deceleration distance
 - ◆ Movement of harness attachment element
 - ◆ Worker height
 - ◆ Free fall distance

Fall Clearance Diagram



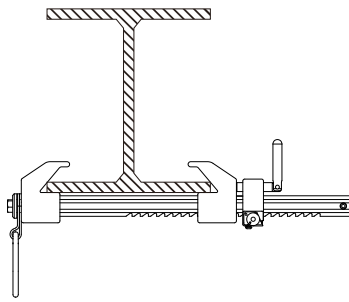
- **Personal Fall Arrest System:** The Aluminum Beam anchor is designed for use with [Tiger](#) approved components or components according to REGULATION (EU) 2016/425 and valid European standard EN361:2002. Use of this equipment with non-approved components may result in incompatibility between equipment, and could affect the reliability and safety of the complete system. A full body harness must be worn by the user when connected to the Aluminum Beam Anchor. When making connections with the Aluminum Beam Anchor, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connector gates must be self-closing and self-locking.

When the Aluminum Beam Trolley Anchor is used as part of a fall arrest system, the user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 6 kN. The anchor device may be used only in PPE anti-fall systems and not in systems to lift load.

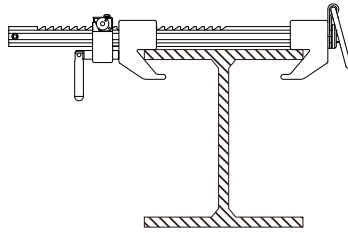
NOTE: A rescue plan shall be in place to deal with any emergencies that could arise during the work.

INSTALLATION AND USE

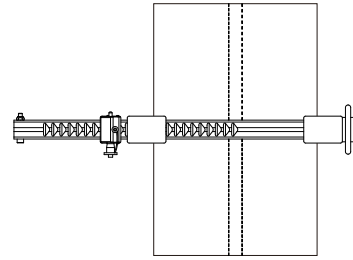
Installation configuration:



Bottom Mount



Top Mount



Side Mount

Inspect the equipment according to **INSPECTION** of this manual before each use.

The Aluminum Beam Anchor could be installed on any I-beam for both Horizontal and Vertical use. The Fixed Beam Anchor could be located on the top, bottom (horizontal) or side (vertical) of I-beam.

Step 1. Remove the quick release lock pin. Open the adjustable beam block by turning the tightening handle counter-clockwise. Then press the safety lock to adjust the beam size.

Step 2. Place the Aluminum Beam Anchor onto beam flange in your required position (top, bottom, side).

Step 3. Place fixed beam clamp against one side of the beam flange. Slide the adjustable clamp against opposite side of the beam flange.

Step 4. Ensure the safety lock is in nearest position to the beam flange.

Step 5. Insert the quick release lock pin to fix the safety lock, ensuring pin is locked into place.

Step 6. To secure the Aluminum Beam Anchor onto the flange, swivel the tightening handle away from the hexagonal rod and turn adjustment handle clockwise in half turns. Ensure beam clamps are tight against both sides of the flange. Only hands tighten is allowed. Ensure the quick release lock pin has not bottomed out. If adjustment pin has bottomed out, reinstall the Aluminum Beam Anchor to the next locking position. If the quick release lock pin is damaged or absent, the equipment is still in workable condition. However, for safety concerning, when the quick release lock pin is damaged or absent, the equipment must be sent back to your dealers, distributors, or manufacturer to replace a new quick release lock pin.

WARNING: The Anchor point position shall always be positioned, when positioned, it should minimize the potential for fall and potential fall distance. To ensure positive locking of the Aluminum beam anchor **TYAA141~TYAA143** a clear, unobstructed fall path is necessary. Do not use the Aluminum beam anchor **TYAA141~TYAA143** when working on materials such as sand or grain, as insufficient fall speed may prevent lock in the event of a fall. It is essential to verify the free space required beneath the user before each use, therefore, in the event of a fall there will be no collision with the ground or other obstacle. A minimum of 3 meter(including a safety factor of 1 meter) from the working level to the nearest obstruction, lower level or ground underneath a

hazard should be maintained.

TRAINING

It is the responsibility of the users to assure they are familiar with the instructions, and are trained in the correct care and use of this equipment. Users must also be aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

INSPECTION

Frequency:

Before each use, inspect the Aluminum Beam Anchor according to following steps and see **ALUMINUM BEAM ANCHOR COMPONENTS** for part identification. The Aluminum Beam Anchor must be formally inspected by a competent person other than the user at least annually. Record the results in the inspection and maintenance log in **INSPECTION AND MAINTENANCE LOG**. The Dual Beam Trolley Anchor should be withdrawn from use immediately according to below situation:

- 1) Any doubt arise about its condition for safe use or;
- 2) It have been used to arrest a fall and not used again until confirmed in writing by a competent person that it is acceptable to do so.

Inspection Steps:

Step 1. Inspect Aluminum Beam Anchor for damage: Look for cracks, dents, or deformities. Look for bending or wear on the hexagonal rod, beam clamps, quick release lock pin, and tightening handle. Ensure no parts are missing.

Step 2. Inspect entire unit for excessive corrosion.

Step 3. Ensure the quick release lock pin can be inserted through the hole on safety lock button, and locks in place.

Step 4. Record the inspection date and results in the inspection and maintenance log.

If inspection reveals an unsafe or defective condition remove unit from service and destroy, or return to [Tiger](#) for repair.

NOTE: Only [Tiger](#) or parties authorized in writing are qualified to repair this equipment.

MAINTENANCE, SERVICE, STORAGE

Cleaning:

Periodically clean the Aluminum Beam Anchor by water and a mild soap solution. Do not use acids or other caustic chemicals that could damage the system components. A lubricant may be applied to the quick safety lock button and release lock pin.

Storage:

Store the equipment in a cool, dry, dark place, chemically neutral, away from sharp corners, sources of heat, humidity, corrosive substances or other damaging conditions. During transport the product should be placed in transport carton, eliminating influence of outside agents like water and dust.

Aluminum beam anchor [TYAA141~TYAA143](#) shall be packed in original package. Transport the Aluminum beam anchor [TYAA141~TYAA143](#) in a cool, dry, clean environment, away from dust, oil and direct sunlight. During transportation, the device should be protected to prevent damage or contamination.

WARNING: Due to the complexity or innovation of the equipment, or where safety critical knowledge is needed in the dismantling, reassembly, or assessment of the equipment, (e.g. a retractable type fall arrester), an instruction specifying that periodic examinations shall only be conducted by the manufacturer or by a person or organization authorized by the manufacturer. The periodic examination frequency shall be at least every 12 months. Product marking legibility shall be checked during period examination. Recommendation in regard to the frequency of periodic examinations, taking account of such factors as legislation, equipment type, frequency of use, and environmental conditions. Periodic examinations are only to be conducted by a competent person as an important element for maintaining product safety and should be completed in accordance with NAL HON instructions. The safety of users depends upon the continued efficiency and durability of the equipment. Aluminum ALUMINUM BEAM ANCHOR TYAA141~TYAA143 scheduled for examination should be withdrawn from service and tagged “do not use”. For further information contact info@tigerlifting.com.tw

NOTE: Any repair, alterations or additions to the equipment shall only be carried out in accordance with manufacturer’s procedures.

it is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

WARNING: Periodic inspection must be made at least every 12 months from the date the product is first used by a competent person only in accordance with Nal Hon periodic examination procedures and the result are record in the life sheet of the product. It is recommended to mark each anchor device with the date of the last or next inspection.

INSPECTION AND MAINTENANCE LOG

Company: _____ Location: _____ Date Purchased: _____

Serial Number: _____ Model Number: _____

Year	Date	By a Qualified Person	No Missing Parts	No Corrosion	No Deformation	Functioning Condition	No Changes to Attachment Structure
		Corrective Action				Maintenance Performed	
		Corrective Action				Maintenance Performed	
		Corrective Action				Maintenance Performed	
		Corrective Action				Maintenance Performed	

EU DECLARATION OF CONFORMITY AVAILABLE ON: <http://www.tigerlifting.com/>