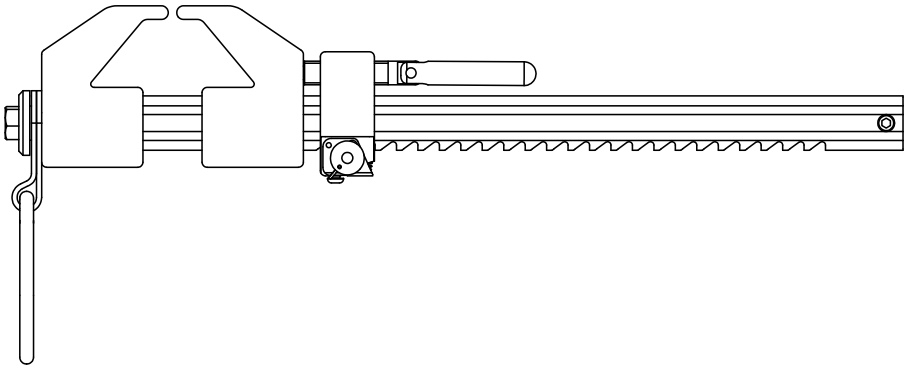
User Instruction Manual

Fixed Beam Anchor

Model # TYAA141
Model # TYAA142
Model # TYAA143



MANUFACTURED BY:

Woo Sing Industrial Co., Ltd
No 20 Yunong Road
Shih-lin
Taipei
Taiwan
Phone: +886-2-2831 3035
Fax: +886-2-2834 0188
info@tigerlifting.com.tw

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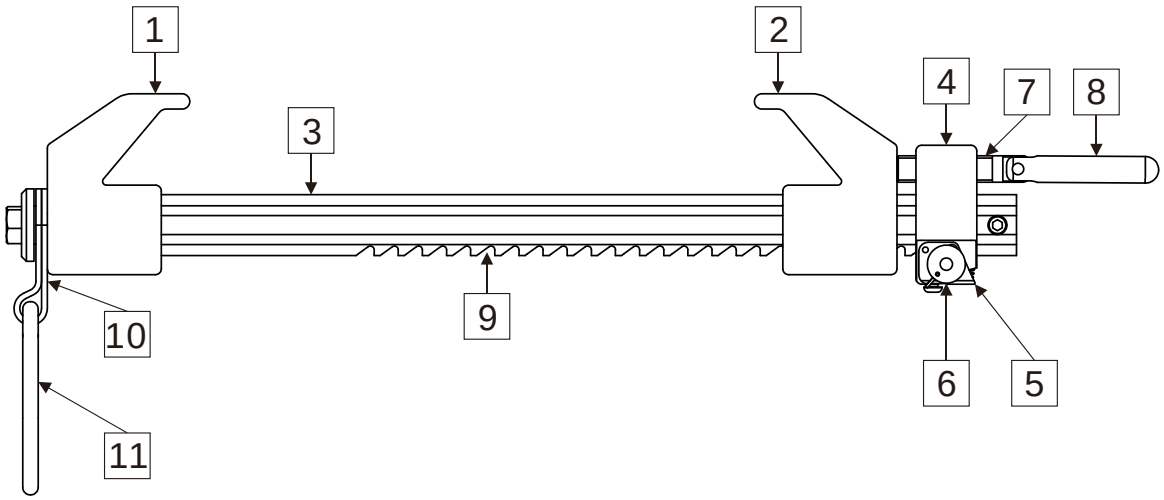
WARNING:

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.

IMPORTANT:

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

FIXED BEAM ANCHOR COMPONENTS



The Fixed Beam Anchor consists of the following components:

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

SPECIFICATIONS

Dimensions:

Beam Size Range,	Model TYAA141:	12-in. (305mm) Maximum
		2.5-in. (63.5mm) Minimum
	Model TYAA142:	18-in. (457mm) Maximum
		2.5-in. (63.5mm) Minimum
	Model TYAA143:	24-in. (610mm) Maximum
		2.5-in. (63.5mm) Minimum
Flange Thickness,	Model TYAA141:	1.5-in. (38mm) Maximum
	Model TYAA142:	1.5-in. (38mm) Maximum
	Model TYAA143:	1.5-in. (38mm) Maximum

Materials:

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

- Stainless Steel
- Anodized Alloy Aluminium
- Plated Alloy Steel

Weight:

Model TYAA141: 5.60LB(2.54KG)
Model TYAA142: 6.24LB(2.83KG)
Model TYAA143: 6.88LB(3.12KG)

APPLICATIONS

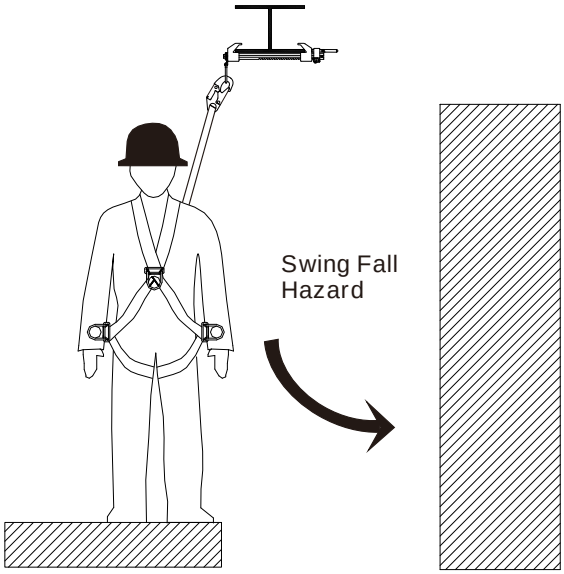
Purpose:

The Fixed 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 Fixed 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.

Limitations:

- **Beam Flange Sizes:** The Fixed Beam Anchor may only be installed on beams with flanges within the adjustment range of the model. See the **SPECIFICATION**.
- **Capacity:** This Fixed 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.

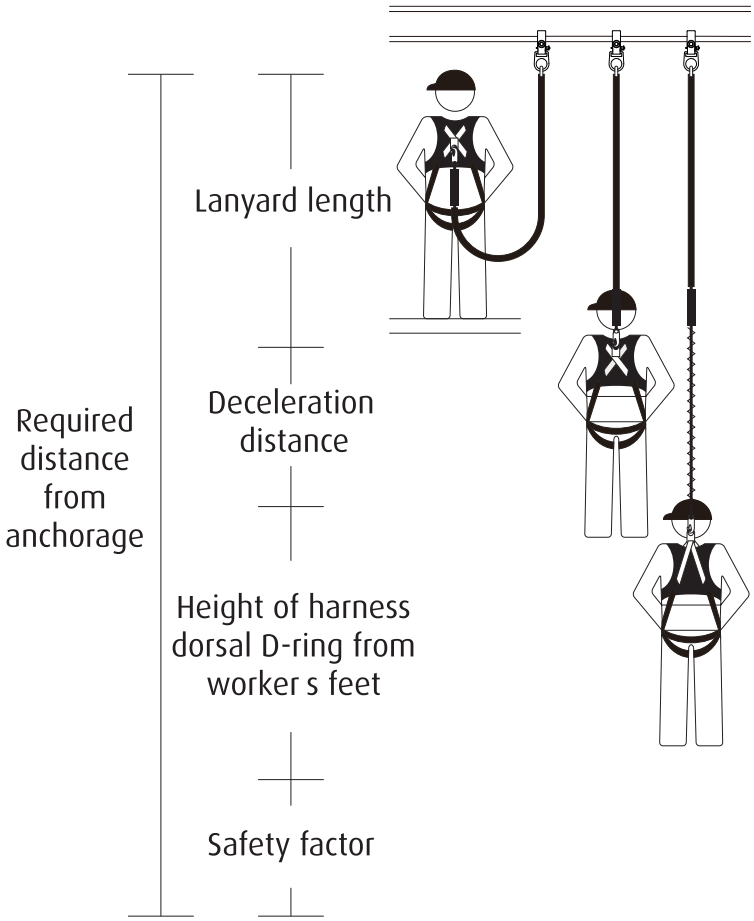


Swing Falls

- **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 Fixed Beam Anchor
  - Length of connecting subsystem
  - Deceleration distance
  - Movement of harness attachment element
  - Worker height
  - Free fall distance

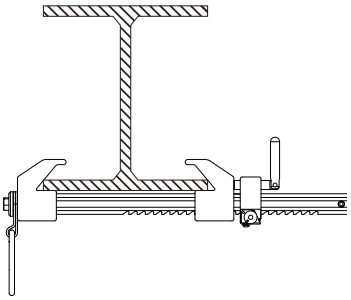
Fall Clearance Diagram



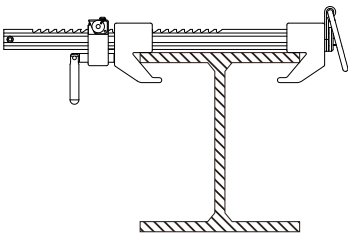
- **Personal Fall Arrest System:** The Fixed Beam anchor is designed for use with Tiger approved components or CE/ANSI certified components. Use of this equipment with non-approved components may result in incompatibility between equipment, and could affect the reliability and safety of the complete system. A full body harness must be worn by the user when connected to the Fixed Beam Anchor. When making connections with the Fixed 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.

INSTALLATION AND USE

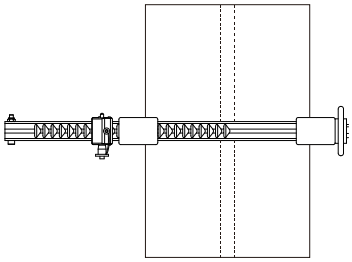
Installation configuration:



Bottom Mount



Top Mount



Side Mount

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

The Fixed 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 Fixed 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 Fixed 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 Fixed 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.

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 Fixed Beam Anchor according to following steps and see **FIXED BEAM ANCHOR COMPONENTS** for part identification. The Fixed 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**

Inspection Steps:

Step 1. Inspect Fixed 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 authorised in writing are qualified to repair this equipment.*

MAINTENANCE, SERVICE, STORAGE

Cleaning:

Periodically clean the Fixed 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.

INSPECTIONAND 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		
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		
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