

INSTRUCTION MANUAL

Type A Bridge Crane
Model 3WBC



QUALITY SYSTEM

ISO: 9001

CERTIFIED

HYQUEST SOLUTIONS PTY LTD
48-50 Scrivener St, Warwick Farm, NSW 2170,
AUSTRALIA
Phone: +61 2 9601 2022 Fax: +61 2 9602 6971
Email: sales@hyquestsolutions.com.au
Web: www.hyquestsolutions.com.au

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Introduction

The Type A Bridge Crane is a collapsible unit intended for measuring discharge or for sediment sampling from bridges. The crane is made from structural aluminium and stainless steel material. The crane includes a winch mount to accommodate the WS250 & WS400 (optional) sounding winch as well as USGS type A reel. It is simple to put up and folds down into an easily carried sized package with no nuts and bolts to put in or remove.

The Type A Bridge Crane is a popular measuring outfit which is used for weights and sediment samplers up to 45Kg.

The Type A Bridge Crane consists of a two heavy duty in-line wheels fitted to the base assembly, a fixed third (roadside) wheel, and all the necessary supporting chassis components. When in use, the crane is tipped up and stands on the two inside wheels while the crane rests against the bridge railing with the boom arm been extended 1 metre out over the river. The two in-line wheels provide stability when the crane in contact with the handrail.

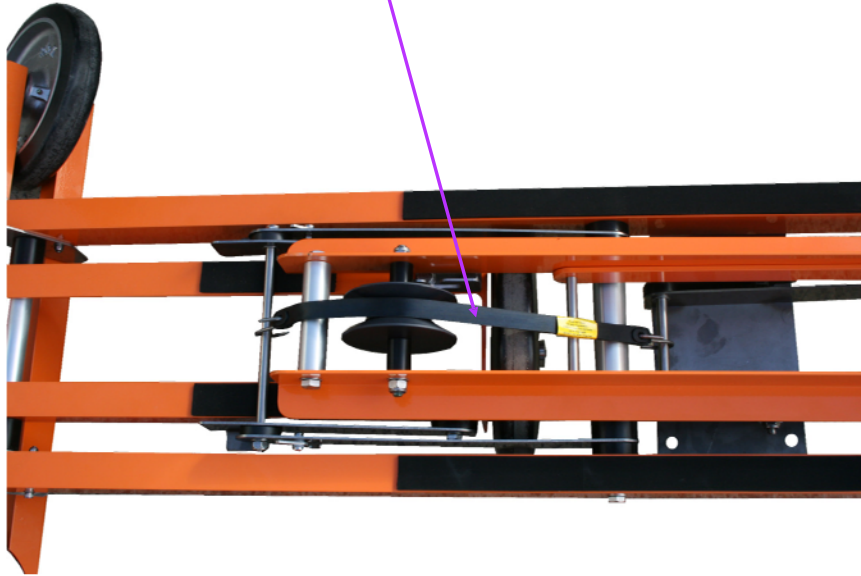
Specifications

Material:	Robust Construction in Aluminium, Stainless Steel & Delrin materials.
Operating Dimensions:	1800 mm Long x 950 mm Wide x 1400 mm Arm Depth (6' Long x 3' Wide x 4.6' Arm Depth)
Storage Dimensions:	1800 mm Long x 950 mm Wide x 200 mm Deep (6' Long x 3' Wide x 0.7' Deep)
Folding:	- Scissor action folding for both winch support and rear wheel extension. - Pivots around cross supports, which slide up and down vertical supports/rails.
Wheels:	3 x Rubber and Cast Aluminium Wheels 2 x wheels move in a lateral left or right position, parallel to the bridge rail 1 x wheel for support purposes

Operation

Step 1:

Remove the strap completely to
set up the bridge crane

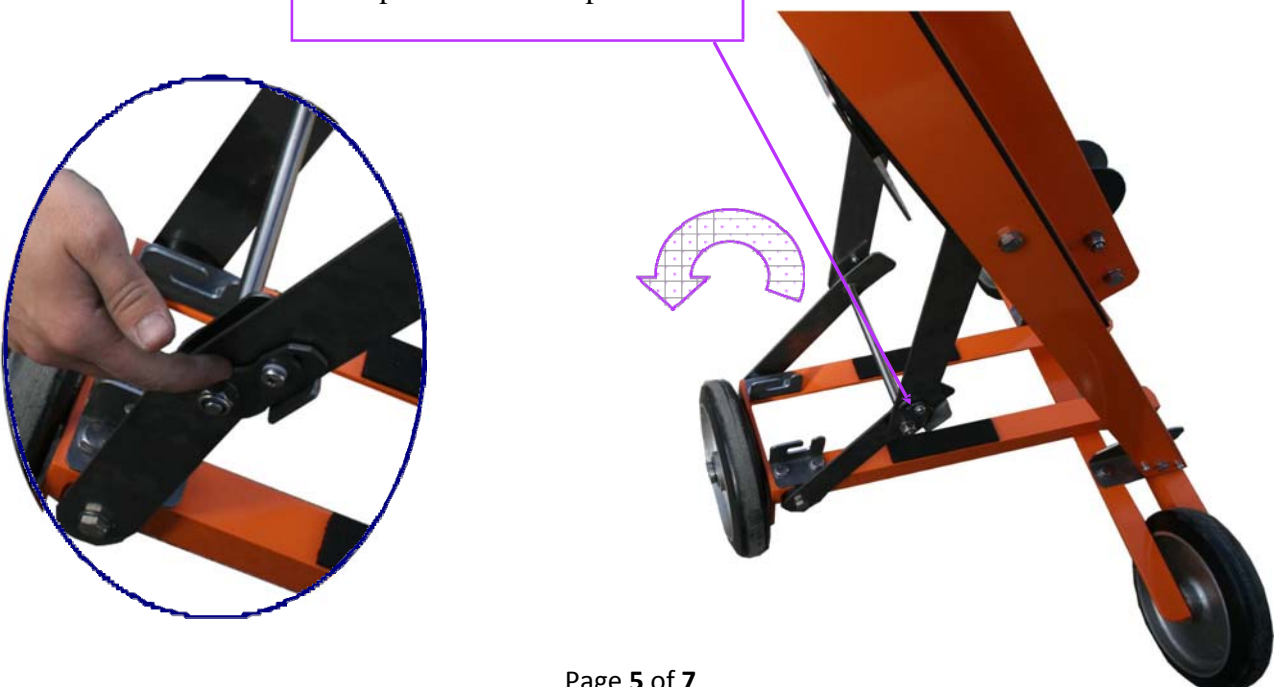


Step 2:



Step 3:

Swing the 3rd wheel in place and use the locking latch to lock support brackets in place



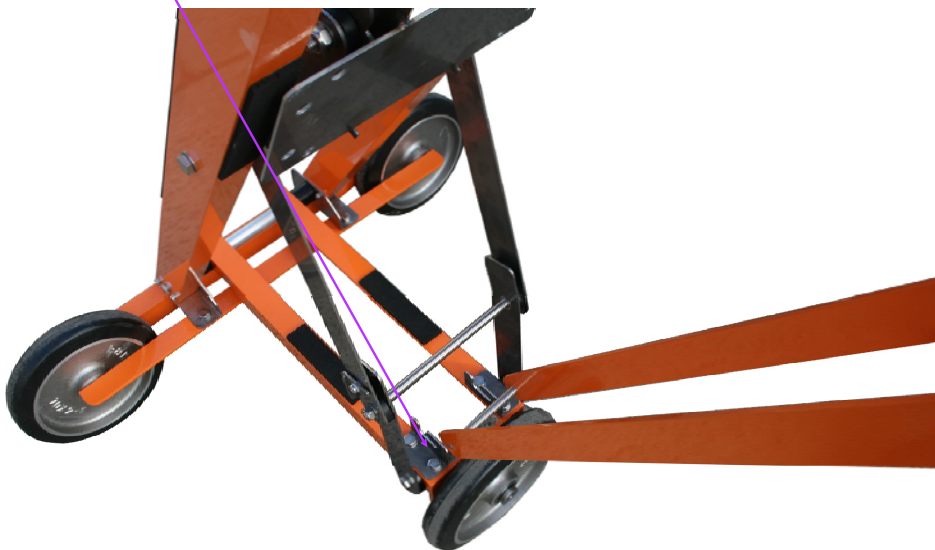
Step 4:



Revolve Bracket support arm



Lock bracket support arm in place as shown



Step 5:

Swing the winch plate out in position in order to bolt the winch on the support plate. The holes on the support plate are suitable for the WS250 , WS400 and USGS type winches.



Step 6:

The Bridge Crane is set up ready to use. A WS250 & WS400 winch and a stabilising weight are used in conjunction with the bridge crane for gauging purposes

