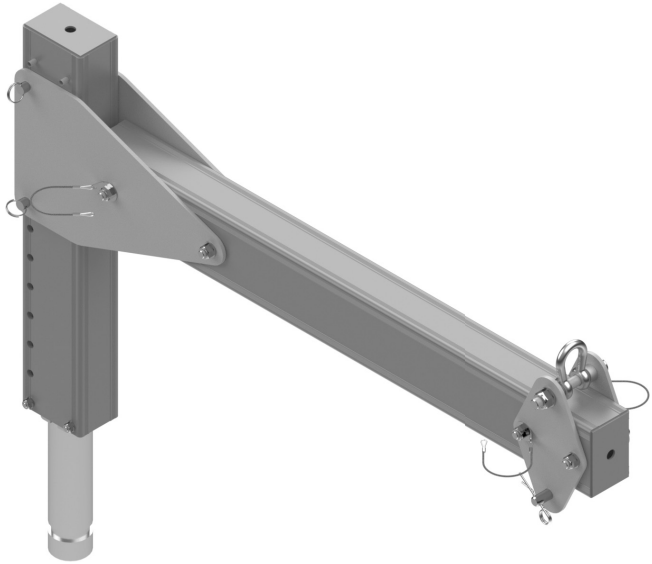


ASSEMBLY AND OPERATIONS GUIDE

Test Davit

reidlifting.com

Please read the following instructions and guidance notes carefully, before using or operating the system.

They contain important information about how to handle and use the system in a safe and efficient way, avoiding danger, reducing repair costs and downtime, and increasing the reliability and lifespan of the system.

They apply for:

- → Operation, including preparation, troubleshooting during operation and cleaning
- → Maintenance, inspection, repair

It is the responsibility of the end user to adhere to the Health & Safety and accident prevention standards and legislation valid in their respective countries and any regions in which the system is being used. It is also incumbent on the user or competent person to ensure that anyone working with the equipment has the necessary medical and physical capabilities. A rescue plan also needs to be in place in the event of an emergency that could occur during the work. This document should form part of the overriding Risk Assessment and Method Statement required for each lift.

© Reid Lifting Ltd 2026. All rights reserved.

CONTENTS

04 Introduction

05 Inspection

06 Assembly Instructions

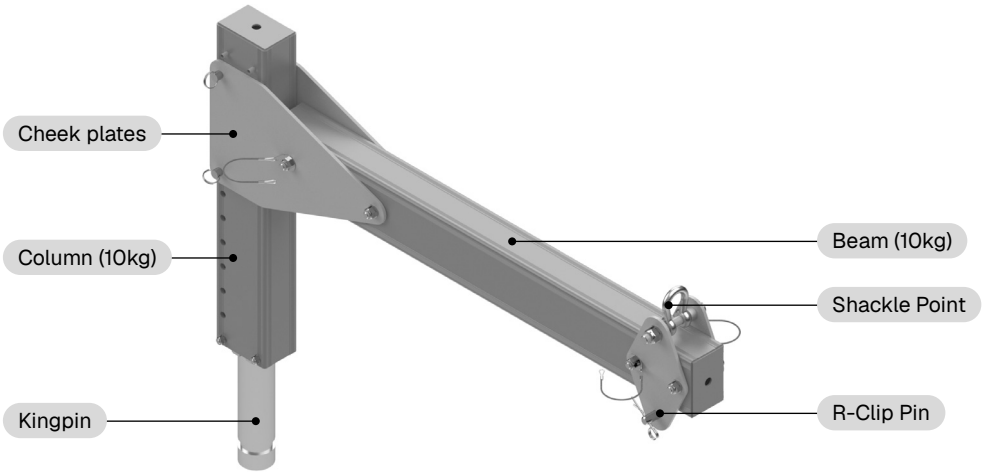
12 Dimensions

13 Testing Load

© Reid Lifting Ltd 2026. All rights reserved.

INTRODUCTION

The REID Test Davit has been engineered to ensure maximum safety standards can be met where fixed sockets are concerned. The Test Davit allows the user to test the strength and stability of fixed sockets up to 9.6kN.m.



APPROPRIATE PPE MUST BE WORN
Gloves | Protective Footwear | Hard Hat

© Reid Lifting Ltd 2026. All rights reserved.

INSPECTION

INSPECTION

As part of a scheduled inspection the test davit should be examined to ensure all components are in good condition and function as intended. Particular attention should be given to all hardware and fixing points as well as wear or deformation to the king pin.

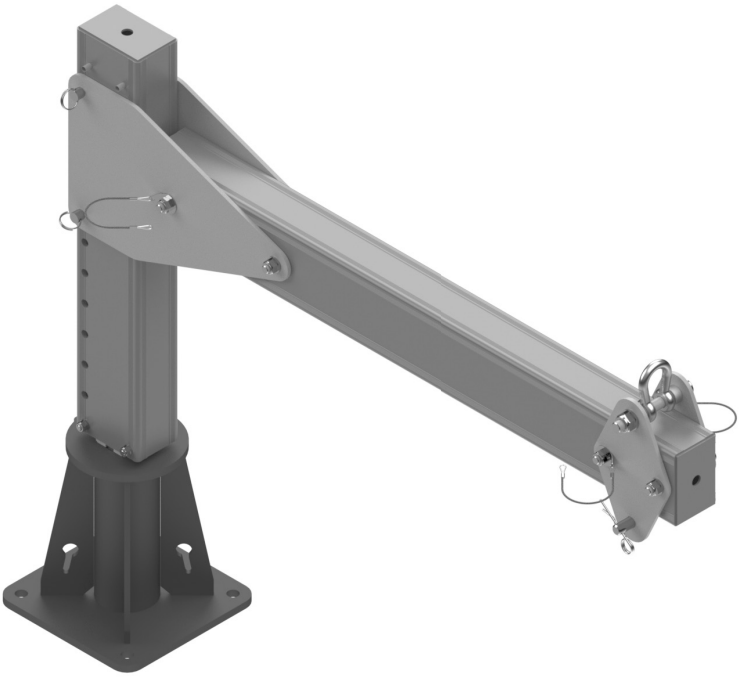
It should be noted that the king pin has an interface which ensures the unit is unable to lift out the socket as high loads are applied, this interface can overtime show signs of wear, it is intended that the king pin element of the test davit will wear first to protect the socket, the life of the king pin will vary depending on the application and test loads applied as such the king pin should be inspected before each use to ensure that no excessive wear has occurred. Regular rotation of the king pin is prudent to stop repeated wear in the same area.

If the king pin has become worn so that the interface surface no longer offers a lip for the pin to engage with the socket the king pin assembly should be replaced.

© Reid Lifting Ltd 2026. All rights reserved.

ASSEMBLY INSTRUCTIONS

The following instructions document how to correctly assemble the Test Davit using a top mount socket.



APPROPRIATE PPE MUST BE WORN

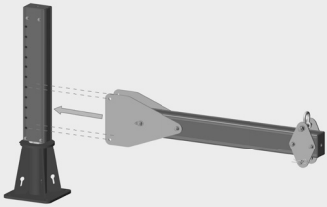
Gloves | Protective Footwear | Hard Hat

© Reid Lifting Ltd 2026. All rights reserved.



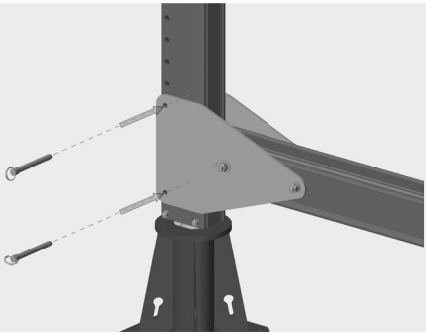
01

Insert the column into the socket.



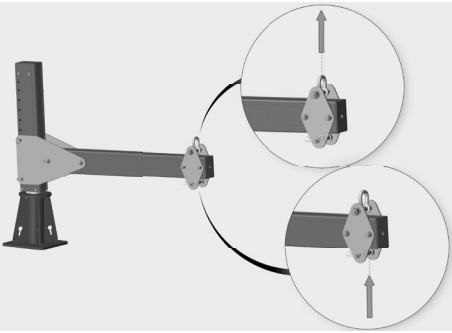
02

Present the Davit beam to the column at the required height.



03

Secure the Davit using the detent pins provided.



04

Depending on the device used for testing the socket, pull or push up the Test Davit using the necessary equipment to the required load.

Once the Davit has been assembled in place it is ready for a device to be attached to the shackle point or clevis pin to begin the test.

© Reid Lifting Ltd 2026. All rights reserved.

TEST WITH STAHT DEVICE

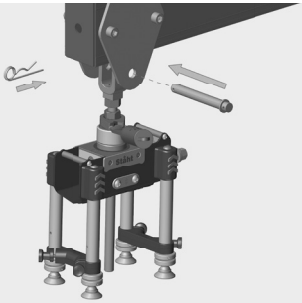
The following instructions document how to correctly assemble a Staht anchor test device with the Test Davit to correctly test the force of the socket.



APPROPRIATE PPE MUST BE WORN

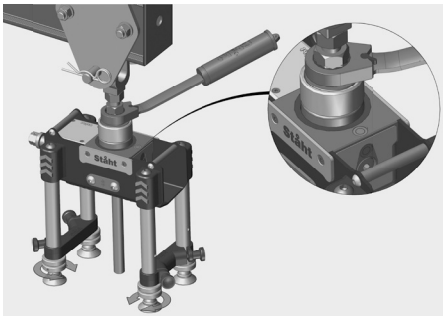
Gloves | Protective Footwear | Hard Hat

© Reid Lifting Ltd 2026. All rights reserved.



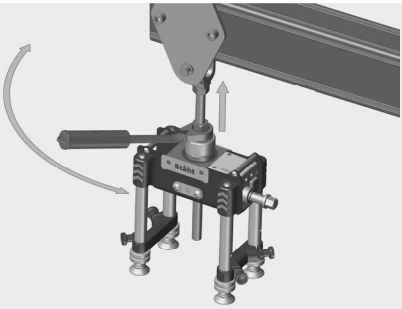
01

With the drop rod in its lowest position, place the device underneath the beam and secure using the supplied clevis pin and r-clip.



02

Ensure device is level by adjusting the feet and checking the bullseye level.



03

Engage the ratchet and apply the load. Once the required loading has been achieved, hold the load for the amount of time determined by the local authority regulations. De-load by rotating the ratchet in the opposite direction.

© Reid Lifting Ltd 2026. All rights reserved.

TEST WITH PORTA GANTRY RAPIDE

The following instructions document how to correctly assemble a Porta Gantry Rapide and a chain block with the Test Davit to correctly test the force of the socket.



APPROPRIATE PPE MUST BE WORN

Gloves | Protective Footwear | Hard Hat

© Reid Lifting Ltd 2026. All rights reserved.



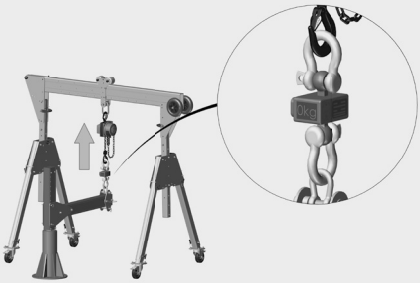
01

Position the Porta Gantry Rapide over the test davit ensuring the trolley sits directly above the shackle on the beam.



02

Fit the chain block and the loadcell in between the trolley on the gantry and the shackle on the test davit.



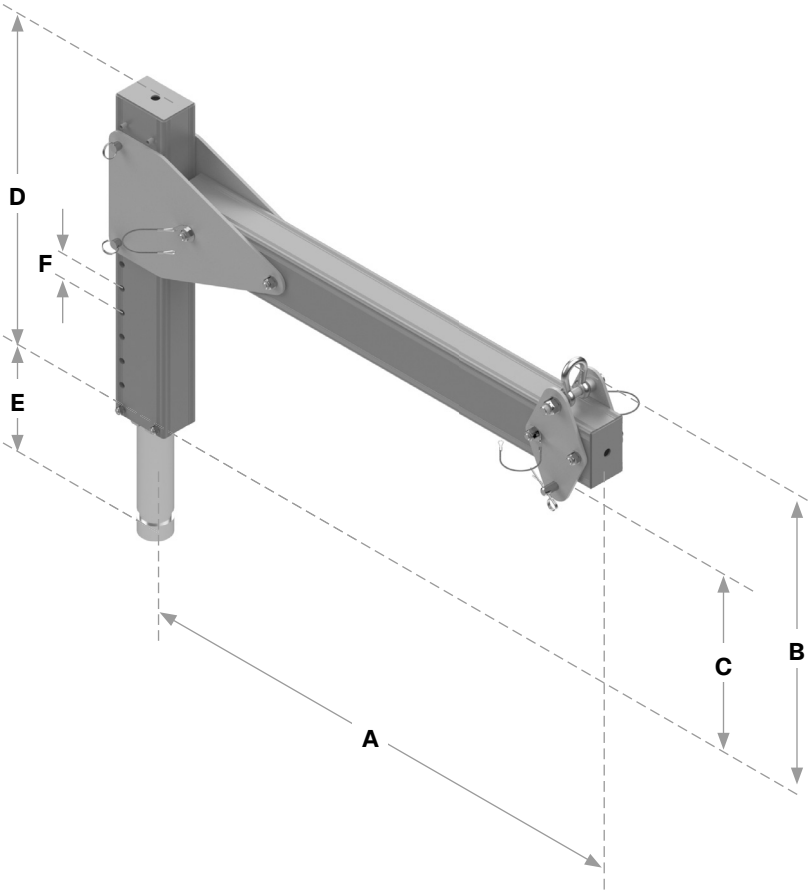
03

Ensuring the loadcell reads 0 before starting. Apply load to the test davit using the chain block. Once the required loading has been achieved hold the load for the amount of time determined by the local authority regulations. De-load the test davit by reversing the chain block.

Please refer to the correct operations and assembly guide for the relevant Porta Gantry Rapidebefore use. These can be found online at reidlifting.com.

© Reid Lifting Ltd 2026. All rights reserved.

DIMENSIONS



Dimensions (mm)							
Radius	Height to shackle point		Height to pin		Overall Height	Kingpin Height	Adjustment points
A	B Max	B Min	C Max	C Min	D	E	F
1000	557	266	389	89	668	230	50

© Reid Lifting Ltd 2026. All rights reserved.

TESTING LOAD

Loading Required for Testing		
Safety		
Davit Radius* (mm)	Service Load (kN)	Load to apply to Test Davit (kN)
800	6	4.8
1000	6	6
1200	6	7.2
1600	6	9.6
Lifting		
Davit Radius* (mm)	Davit WLL (kg)	Load to apply to Test Davit (kN)
800	600	5.9
1000	500	6.2
1200	500	7.4
1600	375	7.4
2000	300	7.4

For lifting applications the proof load is equal to the WLL x 125%.

**Radius relates to the length of the beam of the davit that is used in the lifting operation and not the length of the test davit beam.*

TESTING LOAD CALCULATION

Values for the Davit which is to be used in the lifting operation.

x = WLL

y = Radius

z = Gravity force (m/s^2)

a = Force to apply

$$\left(\frac{x*z}{1000}\right) = f$$

$$(f*y*125\%) = a$$

EXAMPLE LOAD

TDavit with Beam Option 2

x = 500kg

y = 1050mm (1.050m)

9.81 m/s^2 = Gravity force

a = 6.44 kN

$$\left(\frac{500*9.81}{1000}\right) = 4.905$$

$$(4.905*1.050*125\%) = 6.44 \text{ kN}$$

$$\boxed{6.44 \text{ kN}}$$

© Reid Lifting Ltd 2026. All rights reserved.

© Reid Lifting Ltd 2026. All rights reserved.

© Reid Lifting Ltd 2026. All rights reserved.

REID HEADQUARTERS

enquiries@reidlifting.com
+44 (0) 1291 620 796

Unit 1 Wyeview
Newhouse Farm Ind. Est.
Chepstow
Monmouthshire
NP16 6UD
United Kingdom

REID INC. USA

info@reidlifting.com
+1-888-721-6411

2355 Highway 36 West
Suite 400
Roseville
MN 55113

REID FRANCE

contact@reidlifting.fr
+33 (0)297 53 32 99

P.A. de Kerboulard
13, Rue Gutenberg
56250 Saint-Nolff
France

REID DACH

anfragen@reidlifting.com

All information herein is copyright protected by REID Lifting Ltd. All company and product names are Trade Mark and Trade Name protected and all REID Lifting Ltd. Product IPR is protected under Patents, Patents Pending and/or Design Rights.

Printed using environment friendly processes and materials.

STD/A&O/EN/V2/07/2026