

M35⁺

Reverse Davit Arm Test Rig



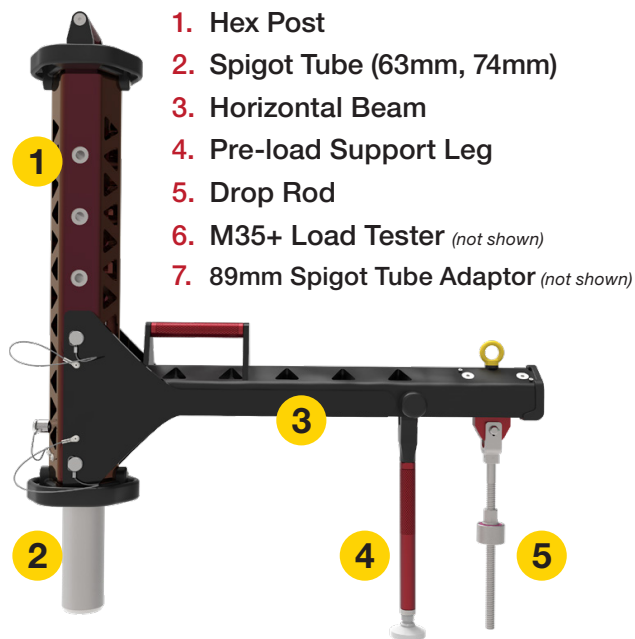
Quick setup guide

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Reverse Davit Arm Test Rig Parts List



REVERSE DAVIT ARM TEST RIG

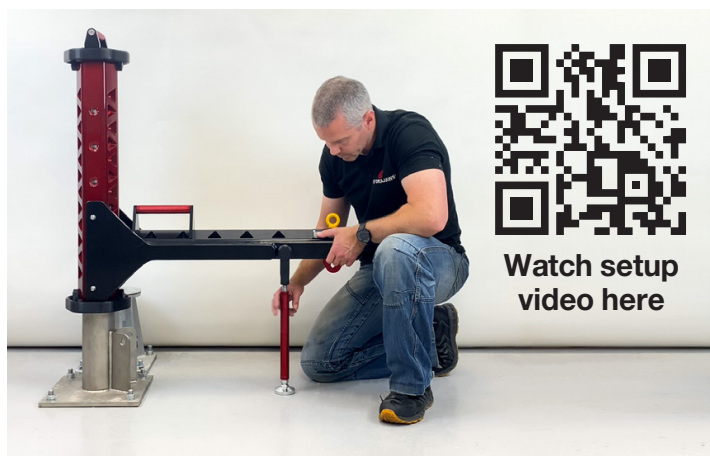
The Hydrajaws Reverse Davit Arm Test Rig in conjunction with M35+ Loadcell allows for service loads to be applied to Davit base sockets.

Quick and easy to setup, this lightweight universal test rig in conjunction with the M35+ loadcell is groundbreaking in terms of speed and ease of use.

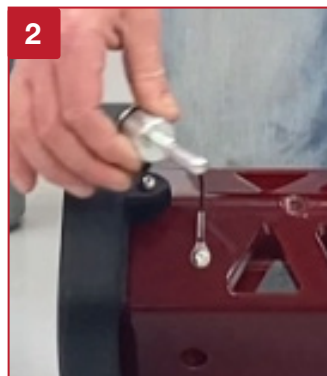
Once setup an average socket test time of under 2 minutes is realistic and using the ergonomic carrying handles, it's onto the next socket quickly without any disassembly.

Measurements can be stored and retrieved using the Hydrajaws Verify App and Digital Reporting System.

SETTING UP THE REVERSE DAVIT ARM TEST RIG



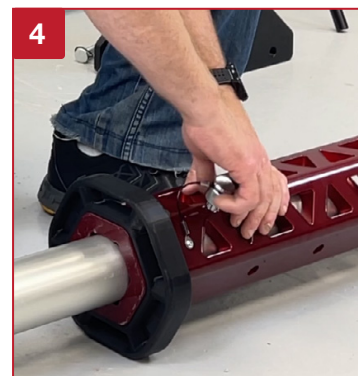
Lay the Hex Post down with the Spigot Retainer Pin face up.



Remove the Spigot Retainer Pin.

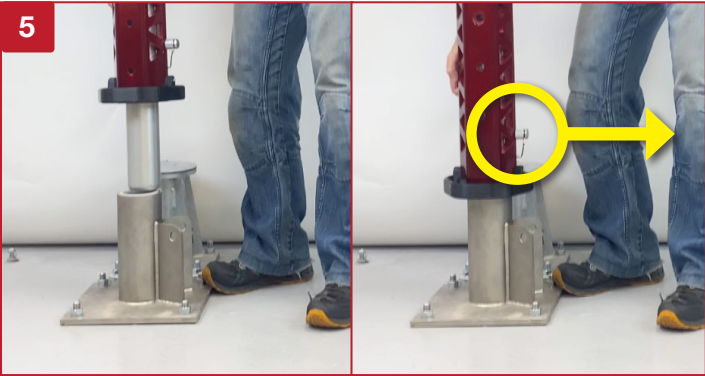


Slide the Spigot into the Hex Post, making sure that the Retainer Pin hole is facing up. Align hole to the Hex Post.

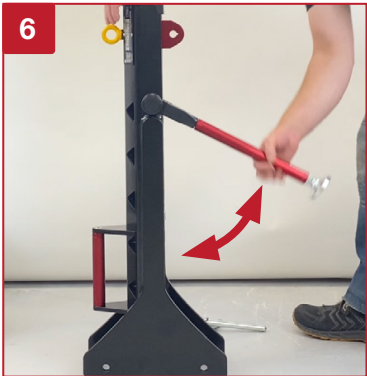


Replace the Retainer Pin to keep the Spigot in place.

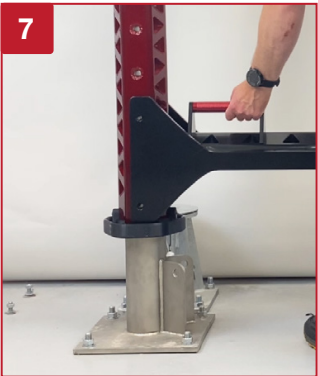
SETTING UP THE REVERSE DAVIT ARM TEST RIG *(Continued)*



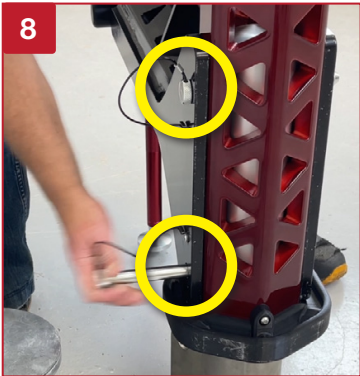
Insert the Spigot and Hex Post unit into the base to be tested, with the Retainer pin facing the direction of the test.



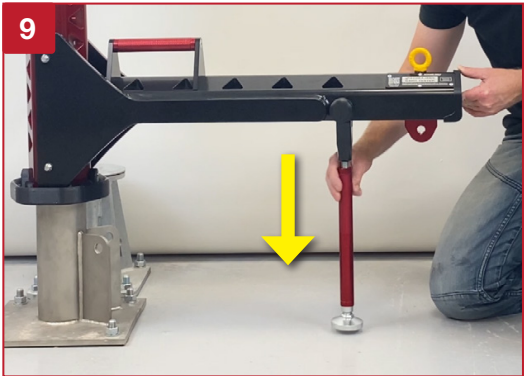
Release the Support Leg from clip in the Horizontal Beam.



Slot the Horizontal Beam into the Hex Post.



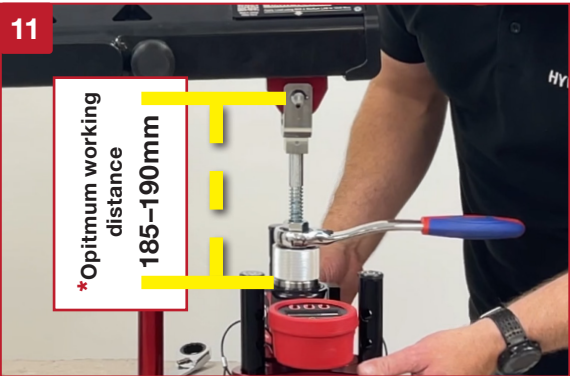
Secure the Horizontal Beam with the two push pins.



Adjust the Beam height by rotating the Support Leg until it rests firmly on the floor.



Locate the Tester on to the Horizontal Beam with the Clevis rod and lock the pin.



Allow a minimum distance of 185mm, from the centre of the pin to the bottom of the thrust nut.



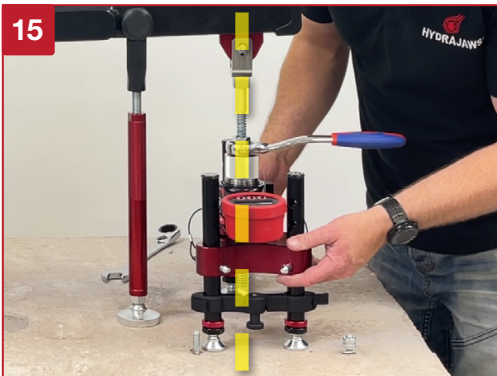
Turn the Gauge on, set to 0kN if required.



Preload the tester to a minimum of 3kN, and do not exceed 3.5kN.



Wind Leg down to release the Preload, down to 0kN.



Adjust tester to ensure vertical alignment of the Clevis Rod to the Horizontal Beam.



Use a ratchet spanner to test to a max of 12kN (according with your Davit Base specifications).

SETTING UP THE REVERSE DAVIT ARM TEST RIG (Continued)



After testing, wind the Support Leg upwards, so that it does not rest on the floor when load is taken off the arm.



Release the load, winding back the gauge towards 0kN, or until the test complete is indicated if you are using the Hydrajaws app.



Unlock the Clevis locking pin and slide out tester.

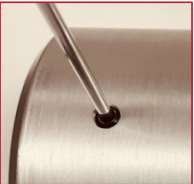


The complete Test Rig can now be lifted out of the base using the handle on the Horizontal Beam, ready for testing on the next base.

89mm SPIGOT SLEEVE ADAPTOR

An 89mm Sleeve adaptor is available.

The Sleeve is inserted over the 74mm Spigot tube and held in place by a grub screw. A 3mm hex key is included in the main kit.



TEST CRITERIA

The table shows the different loads that a davit socket will need to be tested to, based on the test arm.

To calculate your own values, use this formula:

$$X = \frac{L \cdot F}{D}$$

Example (as 1st example in table):

To find the Test Load (X), multiply L (800) by F (6), so 800 x 6 = 4800. Then divide by D (750), 4800 / 750 = 6.4 (X).

Therefore 6.4kN is the load to apply for this configuration.

Load Required on Test Arm (750mm) = D		
Davit Arm Reach (Radius) [mm] = L	Service Load [kN] = F	Load to apply to Test Arm [kN] = X
800	6	6.4
1000	6	8
1200	6	9.6
1500	6	12
1600	6	12.8
2000	6	16



It is essential that these operating instructions are read before the tester is operated for the first time.

Always keep these operating instructions together with the tester.

Ensure that the operating instructions are with the tester when it is given to other persons.

SAFETY RULES

- Modification of the tester, or tampering with it's parts is not permissible.
- Observe the information printed in the operating instructions applicable to operation care and maintenance.
- The tester and its accessories may present hazards when used incorrectly by untrained personnel or not as directed.
- Use only the genuine Hydrajaws accessories or ancillary equipment listed in the operating instructions.

USE OF THE TESTER AS DIRECTED

The tester is intended for use by skilled personnel with the appropriate training and knowledge of the applicable safety precautions.