



PORTA-DAVIT[®] QUANTUM



ASSEMBLY VIDEO

Assembly & Operation

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REID
LIFTING
LIGHTWEIGHT | PORTABLE | SAFE

No. 1 in lightweight, portable, safe lifting solutions

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INTRODUCTION

All users must read these operating instructions carefully prior to the initial operation. These instructions are intended to acquaint the user with the *PORTA-DAVIT QUANTUM* and enable him/her to use it to the full extent of its intended capabilities.

The operating instructions contain important information on how to handle the davit in a safe, correct and economic manner. Acting in accordance with these instructions helps to avoid dangers, reduce repair costs and down time and to increase reliability and lifetime of the davit.

Anyone involved in doing any of the following work with the *PORTA-DAVIT QUANTUM* must read the operation instructions and act accordingly:

- operation, including preparation, trouble shooting during operation and cleaning
- maintenance, inspection, repair
- transport

Apart from the operating guide, health & safety and accident prevention act valid for the respective country and area where the equipment is used, the commonly accepted regulations for safe and professional work must be adhered to.

It is incumbent on the user or instigator of work with the equipment that all users have suitable medical and physical capabilities. Likewise the competent person should ensure there is a rescue plan in place in the event of an emergency that could occur during the work.

N.B. This document should form an element of the overriding Risk Assessment and Method Statement required for each lift.

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CORRECT OPERATION

Intended use

The *PORTA-DAVIT QUANTUM* is intended to be used for the lifting of goods or the lifting of persons, or for providing a safety anchor for the prevention of falls.

N.B. We recommend that the device is dedicated to either goods or personnel use and where reasonably practicable to avoid using the structure for both.

Inspection prior to initial operation

Each davit must be inspected prior to initial operation by a competent person. The inspection is visual and functional and shall establish that the structure is safe and has not been damaged by incorrect assembly, transport or storage. The inspection should particularly concentrate on:

- Dents or indentations on the kingpin, jib, backstay (if present) and column surfaces.
- Straightness of jib and column sections.

N.B. If the telescopic jib section does not close the davit has been overloaded – contact your REID representative.

- Elongation of the jib holes, column holes or backstay connection holes.

N.B. If the inner telescopic jib does not line up with the outer when folding and inserting retaining pin the davit may have been overloaded (see Overload Indicator section) - contact your REID representative.

- Damage to the shackles, strop (signs of fraying – the strop is manufactured from polyester; if signs of damage, UV degradation or wear REID recommend it is replaced).

The above list is not exhaustive. Inspections are instigated by the user.

Inspection before starting work

The inspection procedure requires that a valid inspection/test certificate has been submitted to and

checked by the user. Before starting work, inspect the davit tubes and all load bearing components for visual defects. Furthermore, test the free rotation of the kingpin and ensure that it is fully engaged in the socket. To check whether the kingpin is fully engaged, ensure that the lower bearing at the bottom of the column is flush with the top of the socket. This inspection requirement covers only the davit. Ensure that the overall working load limit (WLL) is adhered to – following the necessary Risk Assessment and Method Statement.

Maximum capacity

The *PORTA-DAVIT QUANTUM* is designed to lift and lower loads up to its related capacity. The capacity indicated on the davit is the working load limit (WLL) or safe working load (SWL), which must not be exceeded.

The table below gives the maximum WLL and radius for each of the standard models.

	Max. Goods WLL	Max. Personnel WLL	Max. Radius
PDQ 1 (PDQ500)	600kg	300kg	1200mm
PDQ 2 (PDQ500)	500kg	250kg	1500mm

When being used as a personnel lifting anchor the user must use a body harness and retractable device or shock absorber that complies with EN355 that limits the maximum arrest force (M.A.F.) to 6kN. Personnel winches used with the *PORTA-DAVIT QUANTUM* should comply to EN1496:2006 or equivalent.

Only ONE person/load may be attached to the davit structure in accordance with the WLL.

If the davit is to be used for personnel winching the WLLs must be observed. It is possible for the davit to have a WLL higher than is allowable when used with a fall arrest device. This is for situations where the structure is to be used as an anchor for lifting persons that have no possibility of falling through a free distance or when drafting out a rescue plan and should only be carried out following a comprehensive risk assessment.

N.B. If winching, a secondary line/fall arrest unit may also be required.

While the *PORTA-DAVIT QUANTUM* will have the capabilities stated on the product it is only one part of a fall arrest system which is only as strong as the lowest rated component. Each lift must be properly planned and all weights clearly known along with the WLL and constraints of all fall arrest system devices.

In the event of simultaneous goods and personnel combined lifting or when being used as a fall arrest system in sub-zero AND wet conditions contact the supplier as capacities may be reduced.

Only a chain hoist up to a capacity of 1000kg may be used with the davit. The structure has been designed such that the weight of a chain block can be neglected, however if using a device with a significant weight it should be included into the WLL.

In the event of using a lifting device other than a manual chain hoist particular attention must be paid to the dynamic effects induced into the structure and it may be required to reduce the WLL of the structure. If in doubt contact your REID Lifting representative.

Notes for correct usage

- For winched variants, each of the *PORTA-DAVIT QUANTUM*'s three sheaves have been designed to work with different rope materials and diameters as detailed below:

Sheave Colour	Rope Diameter	Rope Material
Yellow	4mm - 5mm	Wire rope / Fibre rope
White/Natural	4mm - 7mm	Wire rope / Fibre rope
Grey	8mm - 12mm	Fibre rope only

- It is important that each sheave is used for its intended purpose i.e. Rope diameter must fall within the sheaves capabilities to prevent pinching or squashing of the rope.
- The restraint attachment point (shackle) positioned on the lower column is to be used as a restraint point **only**.
- We recommend the use of load-sensing or overload protection devices on all lifts.
- The WLL (or SWL) rating must **NOT** be exceeded – risk assessment & method statement must consider additional loading in 'wet lift' or 'break-out force' situations.
- Ensure suitable winches and winch connection plates are used for all applications.
- Due care and attention should be practiced when transporting and storing the product to avoid damage.
- Do not throw the product or its components down or stack items on top of it. Always place properly on the ground to avoid damaging the equipment.
- Assemble only as instructed (ensure all bolts are present and fitted correctly as per instructions).
- We recommend that gloves are worn when using this equipment.
- Do not assemble davit in non-approved sockets.
- Do not use the davit if the kingpin shaft is not seated correctly in the socket.
- Do not use the davit if it does not rotate freely in the bearing or the bottom flange is fouled in any way, preventing free rotation of the davit.
- Do not knot or shorten the tension strap to reduce operating radius.
- Attach hoist only to one of the two lifting points.
- Lift only when load chain/rope forms a vertical line between load and lifting shackle used.
- Set up the product in its mounting socket ensuring that it is a safe location and there is no risk of falling into the hazard and davit is set at the correct operating radius for the job.

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- Persons are forbidden to walk or stand in dangerous areas.
- Attach the load only to the lifting points on the head or the lifeline/winch-line.
- Do not allow the load to swing.
- When lifting keep the load as low to the ground as possible.
- If the davit is to be used in special atmospheres contact your supplier.
- When using the davit as a fall arrest anchor the required clearance of the fall arrest device should be considered - refer to the device's Operations and Maintenance manual.
- **NEVER** walk away from structure whilst connected to the equipment i.e. connected by a fall arrest block or winch.
- Before the davit is used, consideration must be given to the potential effects of the ropes running over sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, climatic exposure and the effect of offset forces as a result of pendulum falls.

Warning

- The equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended.
- Do not allow personnel to pass under a suspended load.
- NEVER leave a suspended load unattended.
- The PORTA-DAVIT QUANTUM can only be used for lifting or arresting the fall of **ONE** person.
- It is **NOT** recommended to mix the use of the davit with personnel and goods lifting concurrently.
- Be aware of hazards when setting up/setting down.
- It is essential for safety that the davit is withdrawn from use immediately should:
 1. any doubt arise about its condition for safe use, or;
 2. it has been used to arrest a fall,

and not be used again until confirmed in writing by a competent person that it is acceptable to do so.

Attaching the load

The operator must ensure that the working load limit (WLL) maximum capacity hoist is attached in a manner that does not expose him or other personnel to danger by the hoist, chain(s) or the load.

Disclaimer



All REID Lifting sockets & extensions have been designed, developed and tested for safe use with REID equipment and form a key part of the integrity of the total system.

- All sockets have a working load limit (WLL) based on the maximum radius setting of the davit, and the socket installation and verification tests performed.
- All sockets are supplied in galvanised mild steel or stainless steel (316L grade, passivated).
- Sockets can be powder coated upon request e.g. Yellow for trip hazard warning.

Should non-standard third party sockets be used, REID Lifting's Declaration of Conformity & Incorporation on the products is negated. i.e. The system becomes the responsibility of the client.

Temperature range

The davit can be operated in ambient dry temperatures between -20°C and +50°C (-4°F to 122°F). Consult your supplier in case of extreme working conditions.

If used in sub-zero and wet conditions, the performance may be affected.

Regulations

The *PORTA-DAVIT QUANTUM* complies with the following regulations:

PPE Directive 89/686/EEC, Machinery Directive 2006/42/EC, ATEX Directive 2014/34/EU, The Provision and Use of Work Equipment Regulations 1998 (S.I. 1998 No. 2306), EN795:2012, The Lifting Operations and Lifting Equipment Regulations 1998 (S.I. 1998 No. 2307). The safety regulations of the respective country for using manual lifting equipment must be strictly adhered to.

INSPECTION/MAINTENANCE

Regular inspections

To ensure that the structure remains in safe working order it must be subjected to thorough periodic inspections by a competent person. Inspections are to be 6 monthly if used for the lifting of persons or 12 monthly otherwise, unless adverse working conditions or profile of use dictate shorter periods. The components of the structure are to be inspected for damage, wear, corrosion or other irregularities. To check for worn parts it may be necessary to disassemble the structure. Particular attention should be paid to the areas of the structure described under **Inspection Prior to Initial Operation**.

Repairs should only be carried out by an approved specialist workshop that uses original spare parts. It is recommended that once inspected the device is marked with the date of next inspection.

Inspections are instigated by the user. If detailed information is required on inspection and test criteria, please refer to your supplier's technical department.

If using the davit in explosive atmospheres see additional section titled ATEX.

Maintenance/Repair

In order to ensure correct operation, not only the operating instructions, but also the conditions for inspection and maintenance must be complied with. If defects are found **stop** using the davit immediately.

No alterations or additions to the equipment should be made without the written consent of the manufacturer. Any repair shall only be carried out in accordance with the manufacturer's procedures.

It is recommended to maintain the equipment in a clean and dry manner. Cleaning is suggested using a sponge or cloth with warm, soapy water (using diluted domestic washing up liquid), rinsing and allowing to dry.

The majority of the structure is constructed from aluminium with steel fasteners; non-metallic parts are constructed from acetal co-polymers, polyethylene and polyester.

Overload indicator

The structure is fitted with a mechanism that will indicate if the structure has been overloaded.

The jib assembly, comprising 2 telescopic components is intended to deform differently under high loads. This results in 2 warnings:

1. Upon disassembly, when retracting the upper jib into its stowed position, with the davit orientated in a vertical position, if the pin to lock the two jib components together is difficult to or cannot be inserted completely, an overload may have occurred. If so quarantine the equipment and contact your REID representative.
2. Upon disassembly, when retracting the upper jib into its stowed position, if the jib cannot be inserted fully it has become deformed due to an overload. If this occurs, quarantine the equipment immediately and contact your REID Lifting representative.

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SOCKETS

The *PORTA-DAVIT QUANTUM* structure needs to be anchored to a surface/foundation capable of withstanding the applicable loading. The davit can be supplied with one of the mounts specified below (**only mounts supplied by REID Lifting are approved to be used with the *PORTA-DAVIT QUANTUM***):



Top Mount



Side Mount



Bridge Mount



Cast & Resin Bonded

- The **top mount** is for use on flat horizontal surfaces. It can be installed onto concrete using resin bonded anchors or into steel work using bolts.
- The **side mount** can be installed using resin bonded anchors or mechanical anchors.
- The **bridge mount** socket is for mounting into steel work and walkways.
- The **cast & resin bonded** sockets are for installation into concrete.

Socket installation

Depending upon the socket type there are multiple ways that installation can be achieved. When using bolts they are to be minimum grade 8.8 BZP or, if stainless, grade A4, or equivalent.

When installing the socket it is important to ensure that the top face is as level as possible, with installation being not more than 3 degrees misaligned from the horizontal.

Socket installation should only be carried out by a competent person. If specifying the anchors, resin, fasteners or any combination of the afore-mentioned, it is essential that the competent person is of ability to specify an installation that is safe for use. If in any doubt about the calculation of loads contact your REID Lifting representative.

Verifying the installation

REID Lifting strongly recommends testing the installation of the socket before initial use; especially when using resin bonded anchors.

When verifying the installation we recommend that it is tested to a maximum force of 6kN at the device's maximum radius, if used for the lifting of personnel. If used for the lifting of goods, we recommend testing to no greater than 125% of the goods WLL at its maximum radius. All tests should be carried out in all anticipated worst case loading directions, sustained for a duration of 3 minutes.

If unable to test the installation as a whole, then each anchor can be isolated and tested individually applying the applicable loading, i.e. tension and/or shear loads. For clarification on the loads contact your equipment supplier.

If an installation differs from the sockets referred to above, or to that specified by your supplier then the competent person must verify by calculation that the installation can withstand the following:

- for personnel, 12kN at the devices maximum radius in all anticipated worst case loading directions **but not test to more than 6kN at the devices maximum radius;**
- for lifting of goods, 150% of the goods WLL at the devices maximum radius in all anticipated worst case loading directions **but not test to more than 125% of the goods WLL at the devices maximum radius.**

If required a sacrificial anchor may need to be installed to verify the installation has the ultimate capacities required.

Following initial socket installation verification tests we do not recommend overload tests for the socket or davit and suggest thorough visual examination only. If the client feels that as a result of a visual examination that a load test is appropriate, we would recommend a 100% load test and certainly no greater than 125%.

MARKING

The serial labels indicate:

- The product description.
- The product identification number.
- The products unique serial number.
- The goods working load limit (WLL) of the device.
- The year of manufacture.
- The standards to which the device is approved (only applicable when rated for the lifting of persons).
- The ATEX rating of the product (if applicable) - see ATEX section.
- CE 0088: CE mark plus notified body number (currently LRQA) who are responsible for monitoring REID Lifting's quality control system in accordance with Article 11B of the PPE Directive (only applicable when rated for the lifting of persons otherwise CE just stated).



Read the Assembly & Operation instructions.



PORTA-DAVIT QUANTUM

Assembly & Operation instructions.

ATEX:



This product has been designed for use in explosive atmospheres. If the product is to be used in explosive atmospheres then the following section must be followed. Any different or exceeding use is considered incorrect and REID Lifting Ltd will not accept any responsibility for damages resulting from false application. The risk is solely with the user. If the product has been customised in any way then it may not comply with standards and not be suitable for use in explosive atmospheres. If this is the case then the product will not have any of the below marking. If in doubt contact your REID representative.

ATEX - Classification

If identified with the Marking below, the product meets the requirements of Category 3 equipment for use in Zone 2 explosive atmospheres, providing a normal level of protection where mixtures of air and gases, vapours or mists or by air/dust mixtures are unlikely to occur or, if they do occur, are likely to do so only infrequently and for a short period only.

Or;

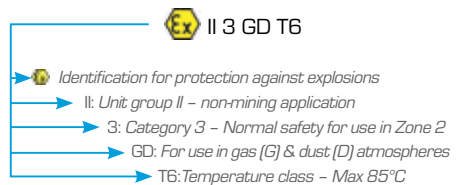
Available as an upgrade the product can be supplied to meet the requirements of category 2 equipment for use in Zone 1 explosive atmospheres, providing a high level of protection where mixtures of air and gases, vapours or mists or by air/dusts mixtures are likely to occur.

N.B. Sockets form an integral part of the davit system and should therefore be suitable for use in the indented environment.

ATEX - Identification

In addition to the previous Marking section, if suitable for use in explosive atmospheres, the product will have the following identification on the serial label:

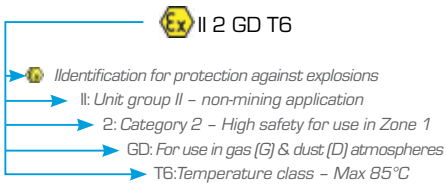
As standard for Zone 2 atmospheres:



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Or;

As an upgrade for use in Zone 1 environments:



ATEX - Spark formation

Increased danger of ignition may emanate from clashing of special material pairings. These are non-corrosion resistant steel or cast iron against aluminium, magnesium or pertinent alloys. This applies especially in case of rust or surface rust.

When assembling the product and inserting fastening components; they must be clear of rust and debris of any kind. Care must be taken to ensure the product is handled in a suitable manner and is never thrown, and always placed, onto the ground.

ATEX - Static electricity

For Zone 1 and 2 applications, identified as potential for build-up, leading to an incendive spark. Although the risk of such ignition is unlikely, the structure must have a clear route to earth, which must be considered when installing the sockets for mounting the structure. These sockets should be in direct contact with the ground and there should be no membrane separating the socket from the ground.

If an isolating membrane is to be used, an earthing path must be provided. If the structure is to be used in a larger socket with a nylon sleeve the davit will have to be earthed using a 4mm earthing cable attached to a convenient location on a metallic part of the structure.

ATEX - Inspection, maintenance & repair

If using the davit in explosive atmospheres, in addition to the regular inspection/ maintenance information found on page 7, these additional instructions should be followed.

Inspections shall be instigated by the user and occur at least 6 monthly or sooner if adverse operating conditions or profile of use dictate shorter periods. Inspections and maintenance shall be carried out at a safe distance away from an explosive atmosphere.

Special attention should be given to dust deposits on the structure, especially in areas where the profiles come into contact, and should be wiped clean and care taken not to apply materials that could create electrostatic charging. Additionally the kingpin should be checked to ensure it rotates freely and the lower bearing must be ensured to be fixed to the structure with no possibility of a build-up of debris between the contact surfaces.

The structure is predominantly constructed from aluminium which will not rust. However there are steel components used throughout. These are the fasteners, shackles and sockets. Where there is sign of any rust deposits on the aluminium structure it should be wiped clean as above and where there is sign of rust on a steel component, then that component should be removed from use and the structure not used until a replacement is fitted.

LANGUAGE

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

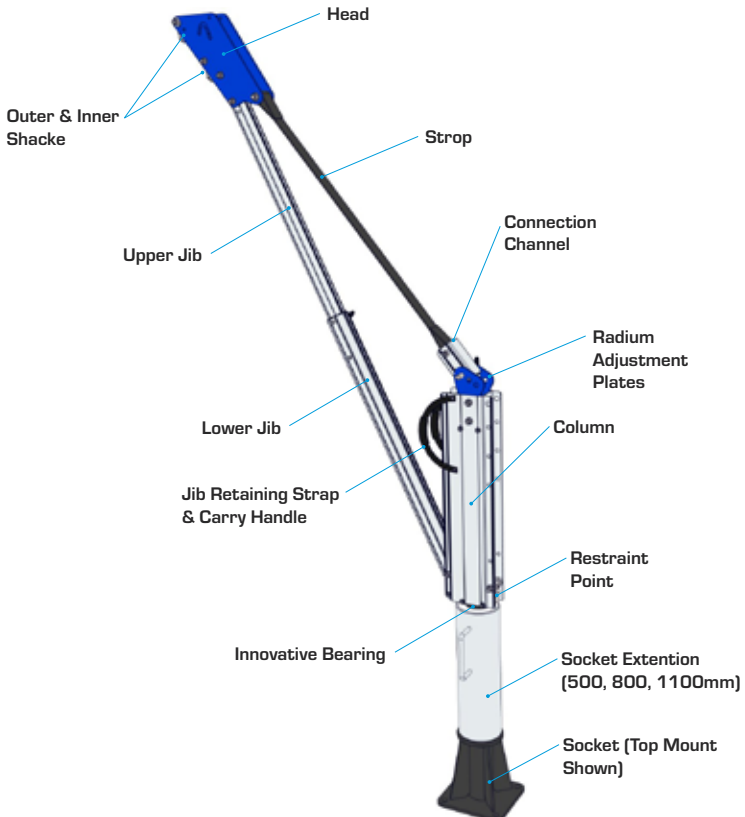
ASSEMBLY INSTRUCTIONS

PORTA-DAVIT QUANTUM - Type S (Shackle only)

NB: Appropriate PPE should be worn: Gloves, Protective footwear, Hard hat

The *PORTA-DAVIT QUANTUM* (Type S) and its constituent components are described in the image below. The use of a socket extension is optional and the mount type may vary between a top mount, side mount, bridge mount, cast in or resin bonded depending on application.

N.B. No tools are required for assembly.



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PORTA-DAVIT QUANTUM - Type S (Shackle only) Instructions



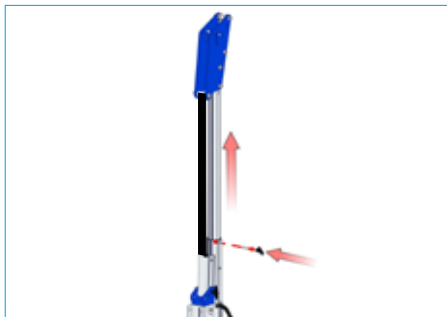
1. Insert the *PORTA-DAVIT QUANTUM* into the socket as shown.

N.B. Top mount socket shown.

N.B. If using a socket extension, install first. The use of a ladder may be required.



2. Remove the telescopic jib pin.



3. Extend the jib and re-insert the pin.

N.B. Holes on the lower and upper jib need to align.

Caution: Potential finger trap.



4. Release the jib retaining strap and rotate jib assembly outwards.

N.B. For disassembly, reverse steps 1-4.

Adjusting the radius



5. The operator can choose the most suitable radius for use.
The decal specifies the radius values with the upper value stating the outer shackle position and the lower value stating the inner shackle position.
The operating dimensions can be found on page 17.

N.B. Ensure pin fully engaged before use.

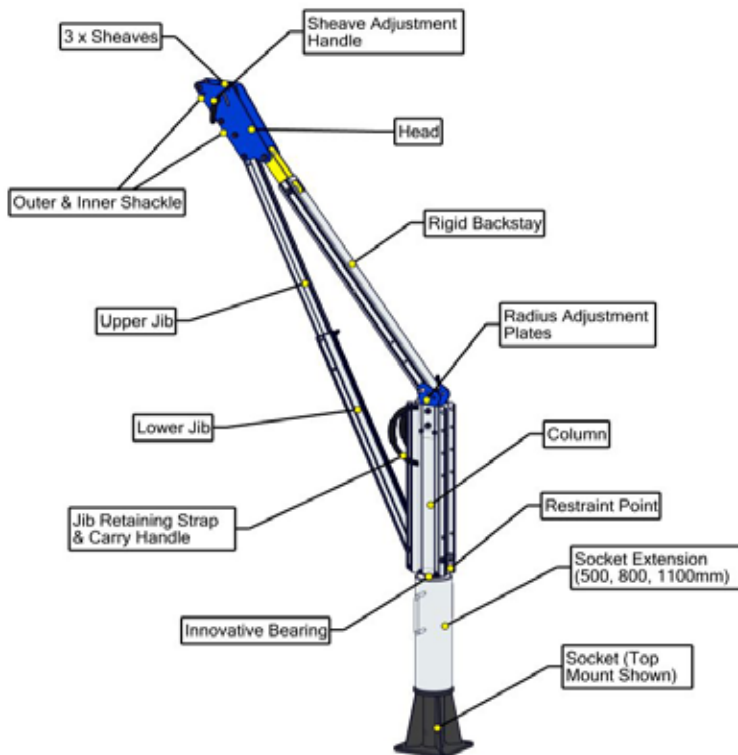
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PORTA-DAVIT QUANTUM - Type W (Winched)

NB: Appropriate PPE should be worn: Gloves, Protective footwear, Hard hat

The *PORTA-DAVIT QUANTUM* (Type W) and its constituent components are described in the image below. The use of a socket extension is optional and the mount type may vary between a top mount, side mount, bridge mount, cast in or resin bonded depending on application.

N.B. No tools are required for assembly.



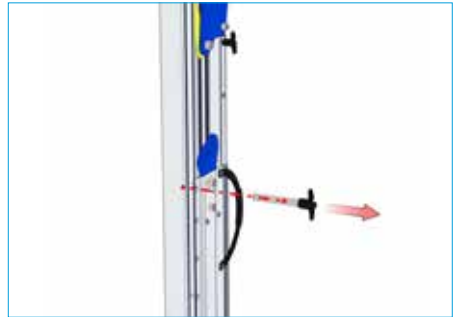
PORTA-DAVIT QUANTUM - Type W (Winched) Instructions



1. Insert the *PORTA-DAVIT QUANTUM* into the socket as shown.

N.B. Top mount socket shown.

N.B. If using a socket extension, install first. The use of a ladder may be required.

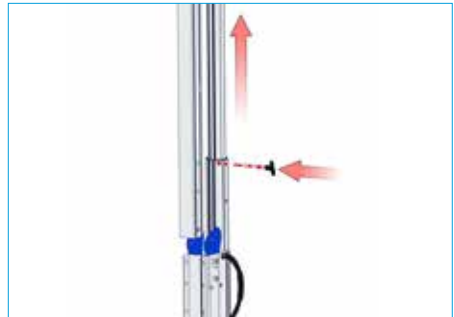


2. Remove column/ backstay pin and position the backstay towards the ground ensuring that the backstay remains inside the column fins.

Caution: Potential finger trap.



3. Remove telescopic jib pin.

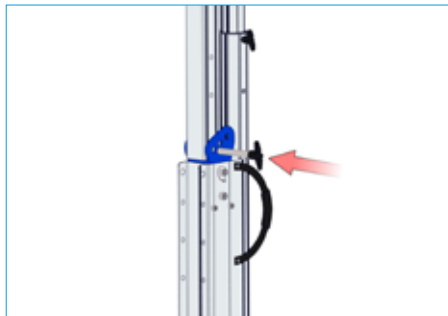


4. Extend the jib and re-insert the pin.

N.B. Holes on the lower and upper jib need to align.

Caution: Potential finger trap.

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5. Line up the bottom hole on the backstay with the required operating radius hole and insert pin.

N.B. The backstay connection plates will need to rotate clockwise to allow for this to happen.



6. Release the jib retaining strap and rotate jib assembly outwards.

N.B. For disassembly, reverse steps 1-6.

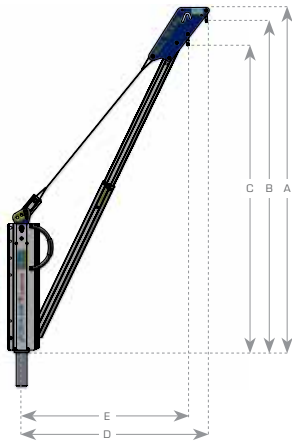
Adjusting the radius



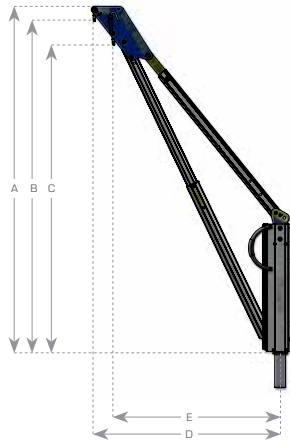
7. The operator can choose the most suitable radius for use.
The decal specifies the radius values with the upper value stating the outer shackle position and the lower value stating the inner shackle position.
The operating dimensions can be found on page 17.

N.B. Ensure pin fully engaged before use.

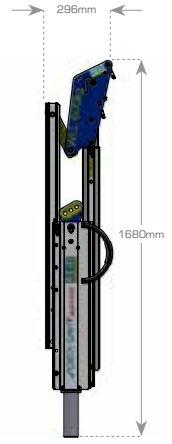
DETAILED DIMENSIONS



Type S (Shackle)

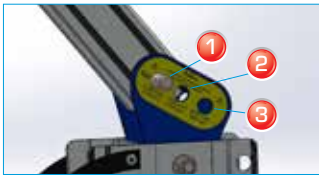


Type W (Winched)



Folded Dimensions

Radius Adjustment Points



	WLL	Radius Adjustment Points	Dimensions [mm]				
			A	B	C	D	E
PDQ 1 (PDQ 600)	600kg	1	2007	1935	1799	1200	1100
		2	2061	1989	1848	1100	1000
		3	2111	2039	1892	1000	900
PDQ 2 (PDQ 500)	500kg	1	1837	1766	1647	1500	1400
		2	1899	1827	1703	1400	1300
		3	1957	1885	1755	1300	1200

Dimensions are the same for Type S (Shackle only) and Type W (Winched).

QUALITY & SAFETY

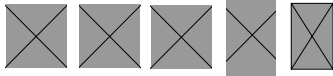
ACCREDITATIONS

Quality and Safety are key themes throughout this document and the REID Lifting ethos. It is with this in mind that we have undertaken external accreditations to ensure we stay focused on what is important to our clients and users and ahead of market trends and developments in Safety and Quality systems.

REID Lifting has been successfully audited by Lloyds Register (LRQA) for approval of its Integrated Management System combining quality systems management, environmental issues and the Health and Safety practices within the company.

REID Lifting holds the following certifications:

- **ISO 9001** - Specifies requirements for a quality management system for any organisation that needs to demonstrate its ability to consistently provide product that meets customer and applicable regulatory requirements and aims to enhance customer satisfaction.
- **ISO 14001** - Specifies the requirements for implementing environmental management systems throughout all areas of the company.
- **OHSAS 18001** - Occupational Health and Safety Managements Systems.
- **LEEA Membership** - REID Lifting Ltd is a full member of the Lifting Equipment Engineers Association (membership 000897). REID Lifting conforms to the main aims of the association which is to achieve the highest standards of quality and integrity in the operations of members. Their entry qualifications are demanding and strictly enforced through technical audits based on the technical requirements for members.



Conformité Européenne (CE)

REID Lifting's products have been designed, tested and approved (as appropriate) by the Conformité Européenne. This certifies that REID Lifting's products meet the

demands of the European Directives regarding health and safety requirements.

EC Type examination in accordance with 89/686/EEC by notified body No. 0120: **SGS United Kingdom Limited**, Unit 202B Worle Parkway, Weston-super-Mare, BS22 6WA, United Kingdom.

The Queen's Award for Enterprise Innovation

REID Lifting has been awarded this prestigious award twice for innovative design and development of lightweight, portable and safe lifting solutions.

TESTING

Testing and Technical File review are integral parts of our design and manufacturing process – to externally verify the products, where appropriate, using government approved Notified Bodies.

Products are proof load tested either individually (or on a batch sampling basis). Full product design & development Technical Files are available for inspection.

Product IPR

Intellectual property rights apply to all REID Lifting Ltd products. There are patents in place, or pending, for:

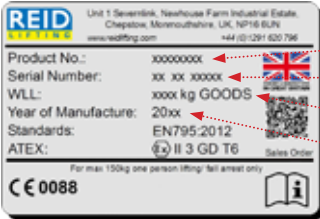
- *PORTA-GANTRY*
- *PORTA-GANTRY RAPIDE*
- *PORTA-DAVIT QUANTUM*
- *PORTA-DAVIT*
- *T-DAVIT*
- *SNAPPER*

All product names are Trade Marks of REID Lifting Ltd:

- *PORTA-GANTRY*
- *PORTA-GANTRY RAPIDE*
- *PORTA-DAVIT QUANTUM*
- *PORTA-DAVIT*
- *PORTA-BASE*
- *T-DAVIT*
- *PORTA-QUAD*
- *SNAPPER*
- *PORTA-LIFTER* Manhole Lifter

INSPECTION

INSPECTION RECORD



* Insert data from serial numbers found on product into table below.

Product number(s)* A			
Serial number(s)* B			
WLL* C			
Year of manufacture* D			
Name of user			
Date of purchase			
Date of first use			
Periodic Examination and Repair History			
Date	Inspected by	Pass/Fail	Comments



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