



ASSEMBLY AND OPERATIONS GUIDE

PortX® Pole Hoist

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
- Transportation

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.

CONTENTS

04 Correct Operation

- Intended Purpose
- Inspection Prior to Initial Operation
- Inspection Before Starting Work
- Maximum Capacity
- Temperature Range
- Notes for Correct Operation
- Warning
- Anchorage Requirements
- Connecting the Pole Hoist to an anchor point
- Carabiner Compliance

07 Fall Protection Applications

08 Inspection & Maintenance

- Regular Inspections
- Maintenance & Repair
- Storage & Transportation

10 Assembly Instructions

- System Set Up
- Single Device
- Dual Device
- Tank Flange Anchor

26 Dimensions

28 Quality & Safety

- Regulations, Standards & Directives
- Accreditations
- Conformité Européenne [CE] & UK Conformity Assessed [UKCA]
- Testing
- Language
- Product IPR

30 Product Labelling

31 Inspection Record

CORRECT OPERATION

INTENDED PURPOSE

The Pole Hoist System is a modular, height-adjustable anchorage device engineered for vertical and horizontal mobility in confined space environments. It is designed to interface with mechanical retrieval systems such as manually operated winches and/or fall arrest devices to facilitate controlled ascent and descent of personnel.

The Pole Hoist system can also be used for raising and lowering of goods when used in conjunction with the Porta Gantry or Porta Gantry Rapide.

This system is certified for use across multiple fall protection modalities, including:

- Fall Arrest – to stop a fall in progress and minimise impact forces
- Work Positioning – to support users in a suspended working posture
- Rescue Operations – to enable safe extraction of incapacitated individuals

The product should only be used by training personnel for applications in the workplace.

It is expected that all users of this product have the necessary medical and physical capabilities, are fully trained and competent in its safe assembly and use.

Operational limitations may arise based on the configuration and compatibility of the anchorage connectors, securing mechanisms, and associated retrieval devices. All components must meet applicable regulatory standards (e.g., EN, ANSI, OSHA) and be inspected prior to deployment.

INSPECTION PRIOR TO INITIAL OPERATION

Each product must be inspected prior to initial operation by a competent person to ensure that the structure is safe and that it has not been damaged by incorrect assembly, transport or storage.

INSPECTION BEFORE STARTING WORK

Before starting work, the product assembly and all load-bearing components should be checked for visual defects as per the inspection checklist on page 31. If inspection reveals an unsafe or defective condition, or if there is any doubt about its condition for safe use, remove the product from service immediately.

When using this product ensure that there is a rescue plan prior to starting work and ensure that users are trained in the correct execution of the plan and have all necessary rescue equipment to hand.

To ensure safe and effective fall protection, both the product's capacity and the strength of any supporting structures or components must be considered.

A. Anchorage Structure

The structure to which this product is anchored must be capable of supporting the required load specified by the fall protection system:

Minimum vertical load capacity: 12 kN (2700 lbf)

B. Anchorage Connection Points

All anchorage connection points used with this product must be rated to withstand the maximum forces exerted by the system during use

MAXIMUM CAPACITY

Personnel lifting: Rated to 140kg to use in conjunction with PortX® devices.

Goods lifting: Rated at 500kg. Do not exceed the maximum load capacity. Reduce the WLL to match the lowest rated component of the system.

If this product is to be used for lifting or lowering a person where there is a risk of a fall, then a personal fall arrest system (PFAS) is required, which meets the requirements of prevailing national standards.

Devices for lifting and lowering of goods and personnel should only be connected at the connections point specified in the product operation and maintenance instructions.

TEMPERATURE RANGE

This product can be operated in ambient dry temperatures between -23° to +55°C (-10°F to 131°F). Consult your supplier in case of extreme working conditions. If used in sub-zero and wet conditions, fall arrest appliances characteristics may change.

NOTES FOR CORRECT OPERATION

If using the Pole Hoist for materials lifting operations we recommend the use of load-sensing or overload protection devices

The risk assessment and method statement must consider any factors that might apply additional loading to the system during lifting operations

Suitable, appropriately rated winches and bracketry must be used for all applications

Assemble only as instructed (ensure all fittings are present and fitted correctly as per instructions)

Do not allow the load to swing

Do not use the Pole Hoist if the base stand cannot be placed on a firm, level surface.

Set up the product ensuring that it is a safe location and there is no risk of falling into the hazard or lift area

If a risk of falling exists during setup, a compliant barrier or separate anchor point and PFAS should be utilised to protect the worker setting up the Pole Hoist system

Attach the load only to the designated lifting points

When using this product as a fall arrest

anchor ensure there is adequate fall clearance when working at height. A competent person should calculate this taking in to account all of the components of the personal fall arrest system.

Never exceed the number of allowable users

WARNING

The equipment should not be used outside of its limitations, or for any purpose other than that for which it is intended

Do not lift or transport loads while personnel are in the danger zone as defined in the pre-operation risk assessment carried out by a competent person.

Do not allow personnel to pass under a suspended load

Never leave a suspended load unattended

Be aware of hazards when setting up/ folding down, such as trapping fingers in rotating parts

Be aware of any adverse weather conditions such as strong or gusty winds which could impose additional horizontal loads and affect the stability of the structure

If weather is impacting operations stop work immediately

Don't allow the load to hit the system

Always consider the potential effects of sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, climatic exposure on all components of the fall protection system, and the effect of offset forces as a result of pendulum falls

If the product has been subjected to a fall arrest or impact force it must be immediately removed from service

Ensure that any fall protection system components being used are compatible and meet the requirements of applicable standards

Misuse of this product could result in serious injury or death



READ THIS SECTION CAREFULLY

ANCHORAGE REQUIREMENTS

When implementing a fall protection system, it is essential to consider not only the rated capacity of the product but also the structural integrity and load-bearing capacity of all supporting elements. The anchorage structure and its associated connections must be capable of withstanding the forces imposed by the system during use.

This product must be deployed in accordance with applicable local regulations or standards. To determine the appropriate user capacity:

- Identify the relevant regulation or standard governing fall protection in your region.
- Follow the specific instructions and limitations outlined within that framework.

Important Considerations:

- User capacity includes the total body weight plus any tools, equipment, or gear carried or worn.
- The maximum arresting force is determined by the performance characteristics of the user's connecting subsystem and must not exceed the limits specified by that component (refer to manufacturer's instructions for non-REID components)

CONNECTING THE POLE HOIST TO AN ANCHOR POINT

The anchorage structure securing this product must be able to withstand any required loads as permitted by its Fall Protection system.

The user capacity of a complete Fall Protection system is limited by its lowest rated maximum capacity component. For example, if your connecting subsystem has a capacity that is less than your harness, you must comply with the capacity requirements of your connecting subsystem. See the manufacturer instructions for each component of your system for capacity requirements.

CONNECTOR COMPATIBILITY: Connectors are compatible with connecting elements when

the size and shape of either component does not cause the connector to inadvertently open, regardless of orientation. Connectors must comply with applicable standards. Connectors must be fully closed and locked during use.

CARABINER COMPLIANCE

A suitably sized Carabiner must be used in accordance with the applicable regional standards:

- For use within the EU/UK, the Carabiner shall comply with the requirements of EN 362, ensuring it is designed and tested for personal fall protection systems.
- For use within the United States, the Carabiner shall conform to ANSI/ASSE Z359.12, meeting the prescribed strength, gate performance, and dimensional criteria for connectors used in fall protection applications.
- All Carabiners must be appropriately rated for the intended load and compatible with the system components to maintain full compliance and safety integrity.

FALL PROTECTION APPLICATIONS



**READ THIS SECTION
CAREFULLY**

FALL PROTECTION

Fall arrest: This section must NOT be read in isolation from all other sections of this manual. Read the whole manual before using this product.

This Pole Hoist product has been designed and tested to provide an anchor point as part of a personal fall protection system (PFAS). It is in conformity with BS:EN795:2012. It is suitable for use by one person for fall arrest applications attached via a self-retracting lifeline (SRL) with recovery features.

The SRL can be attached in 2 positions on the Pole Hoist arm, depending on how the Pole Hoist is to be configured, see assembly instructions for further guidance.

When being used for fall arrest, the user must be equipped with a full body harness and a shock absorber that complies with the relevant national standards and regulations and that limits the Maximum Allowed Force (M.A.F.) To 6kN.

When lifting a fallen or stricken casualty the maximum load should not exceed the rated load (WLL) of the equipment.

Each lift must be properly planned, and all weights clearly known along with the WLLs and constraints of the personal fall protection system components and winches that make up the system. Only REID PortX® devices are recommended to be used with this product in accordance with EN1496:2017.

INSPECTION & MAINTENANCE



READ THIS SECTION CAREFULLY

The following information is based on Reid's recommendations and does not remove the responsibility of the user to comply with the relevant regulations and standards that are valid in the respective countries and regions where the system is being used.

Before each use inspect the assembly and all load bearing components for visual defects as per the below list;

- | Ensure the stand and pole are free from damages or defects
- | Ensure that there is no elongation of the holes in the pole or stand section and that the inserts have not become loose
- | Ensure that all pins are straight and free from damage
- | Ensure that the sheaves rotate freely and that there is no visible damage
- | Ensure no bolts are loose
- | Check brackets or attachments for signs of damage
- | Carry handles are free from damage and fraying
- | Ensure the head rotates freely before use
- | Ensure the lever arm rotates and springs back before use

Inspections are instigated by the user or competent person. The above list covers the main components on this product. Any accessories and third party components must be inspected following the manufacturers guidelines or corresponding instructions for use.

REGULAR INSPECTIONS

To ensure that the products remains in a safe working order it must be inspected regularly by a competent person. We recommend inspections every 6 months, unless adverse working conditions or profile of use dictate shorter periods. The components of the system frame need to be checked for damage, wear, corrosion or other irregularities. It may be necessary to disassemble the system frame in order to do this. Particular attention should be paid to checking the profiles for denting, making sure there is no wear or elongation of the bolt holes and ensuring that the pole section is straight and true.

Any necessary repairs should only be carried out by an approved specialist workshop using original spare parts. It is recommended that once inspected or repaired, the device is marked with the date of the 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. The equipment Inspection Record is on page 31.

MAINTENANCE & REPAIR

In order to ensure correct operation, the conditions for inspection and maintenance must be complied with. If any defects are found, stop using the product immediately.

No alterations or additions to the equipment should be made without the written consent of the manufacturer.

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, rinsing and allowing to dry.

This product must be assembled using metric fixings supplied by the original manufacturer only. Failure to do so could have an impact on the structural performance and stability of the product.

STORAGE & TRANSPORTATION

When transporting the components, take note of all the manual handling considerations.

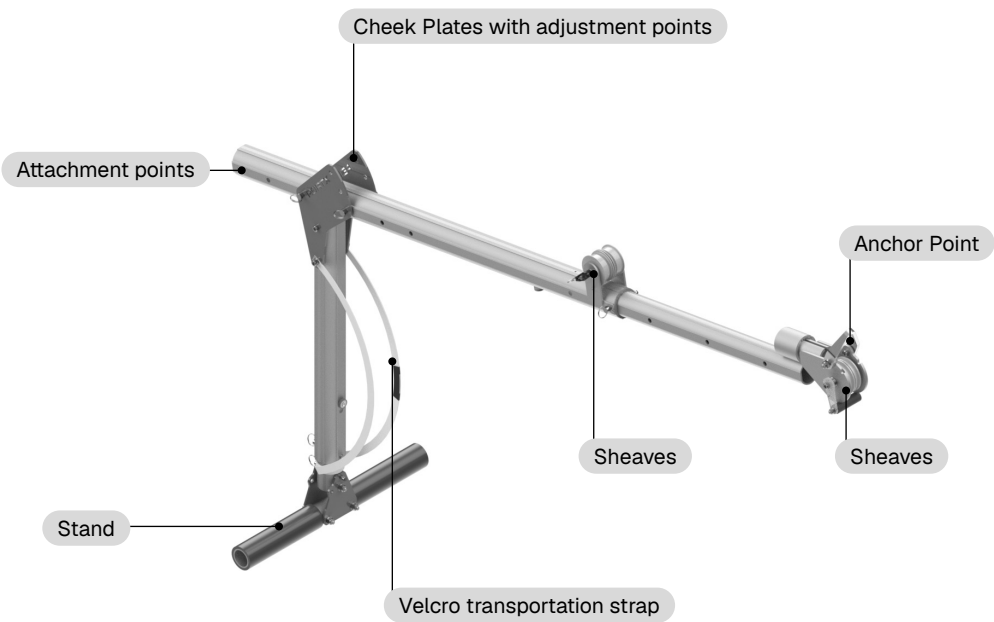
Do not throw the product down or stack any items on top of it.

Always place carefully and securely on the ground to avoid damaging the equipment.

Take care when transporting and storing the system to avoid damage.

ASSEMBLY INSTRUCTIONS

The PortX® Pole Hoist and its constituent components are described in the image below.



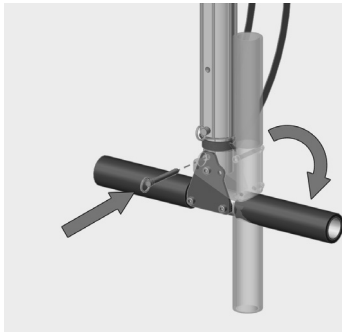
APPROPRIATE PPE MUST BE WORN

Gloves | Protective Footwear | Hard Hat



01

Remove the Velcro strap from the handles and pull apart.



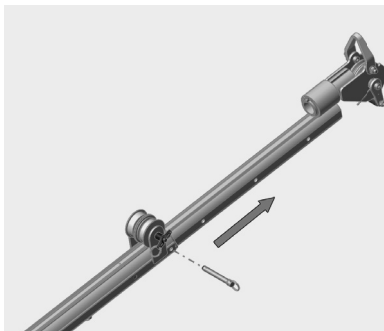
02

Pivot the stand and lock into place using the pin.



03

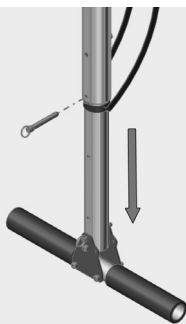
Using the front pin, pivot the arm and re-insert to secure. The angle can be adjusted later.



04

Remove the pin, extend the arm to the desired length and re-insert the pin to secure.

This step must not be carried out with devices fitted.



05

Do the same again for the leg section, removing the pin, adjust as required and secure the pin securely.

This step must not be carried out with devices fitted.



06

Using the pin, adjust the angle of the arm.



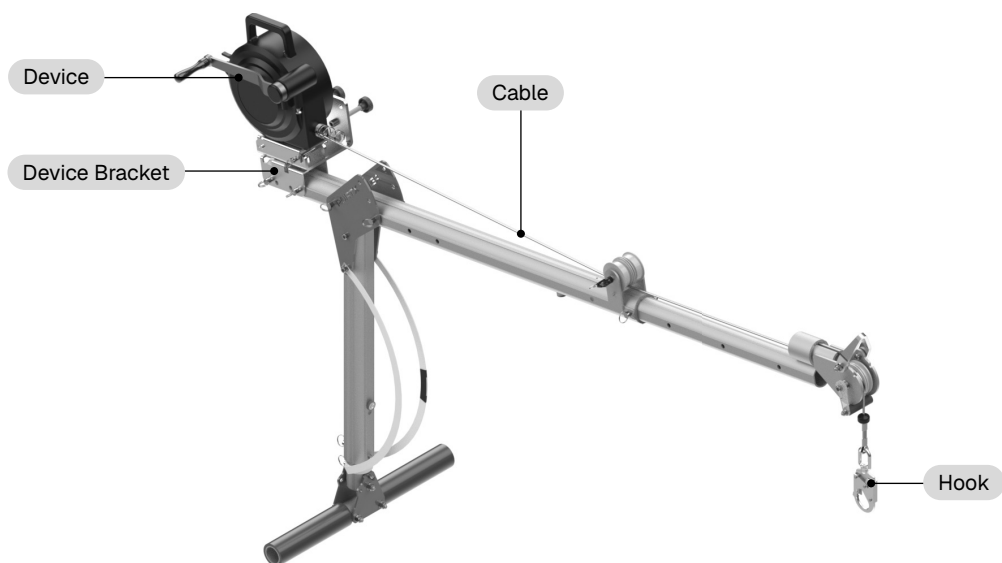
07

The system is now set up ready to attach lifting devices and connector to the anchor point.

Ensure unit is stable before proceeding to fit devices.

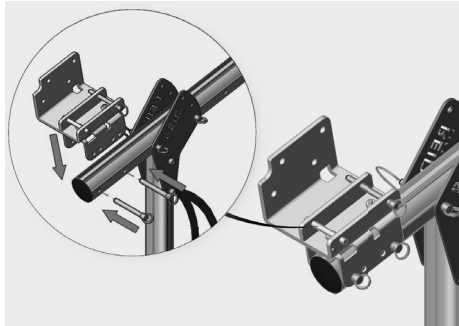
SINGLE DEVICE SET UP

The PortX[®] Pole hoist can be used with the following additional components when fitting a single Winch or SRL device.



APPROPRIATE PPE MUST BE WORN

Gloves | Protective Footwear | Hard Hat



01

Using supplied detent pins, fit the PortX® Rescue SRL bracket to the arm.

Top Mount socket shown. If using a socket extension, install first. The use of a ladder may be required.



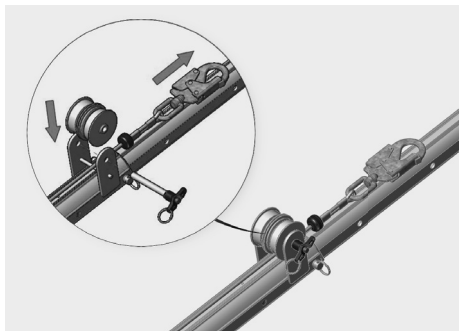
02

Fit the device and pin into place.



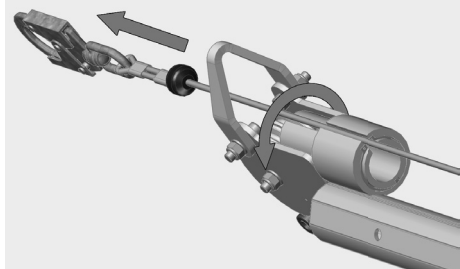
03

Pull the cable along the arm.



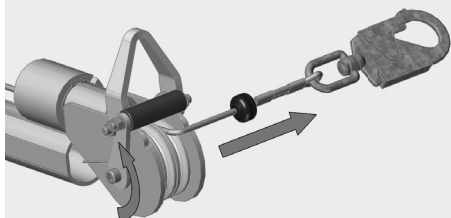
04

Remove the middle sheaves, feed the cable underneath and pin back into place. Take note of which sheave the cable is sitting on.



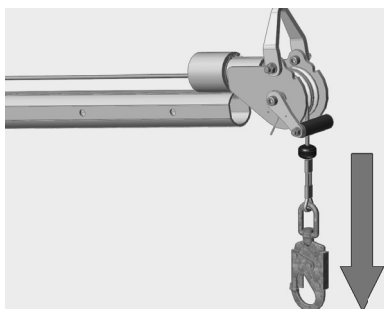
05

Pull the cable through the head and pivot so that it passes through the centre.



06

Place the cable through the notch in the head, pull the retention bar back.



07

Pull the cable downwards and release the retention bar. Ensure that the cable sits in the sheave on the same side as the middle sheave.



08

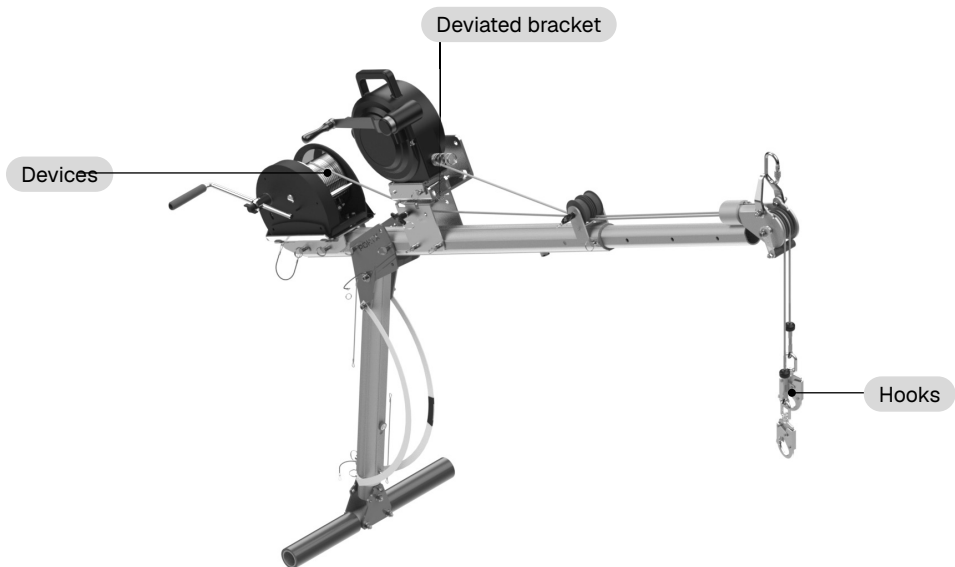
The Pole Hoist is now ready to be attached at the anchor point ready for use.



The PortX® Pole Hoist must not be operated unless the winch/ SRL cables are threaded underneath the middle sheaves.

DUAL DEVICE SET UP

The PortX® Pole hoist can be used with the following additional components when fitting a combination of Winch and Recovery SRL.



APPROPRIATE PPE MUST BE WORN

Gloves | Protective Footwear | Hard Hat



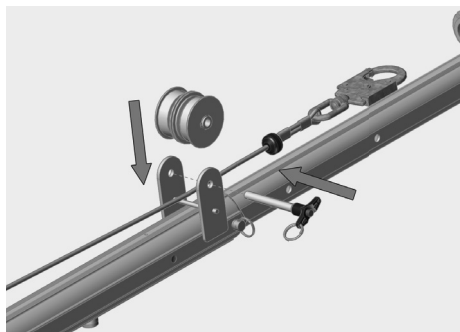
01

Using supplied detent pins, fit the PortX® winch to the arm.



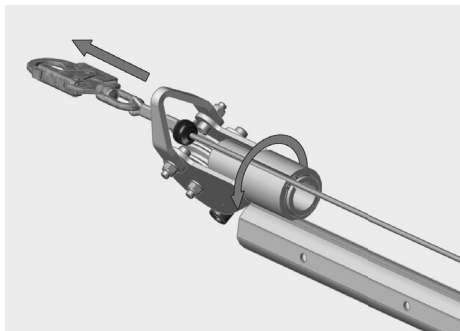
02

Release some of the cable and pull up the arm.



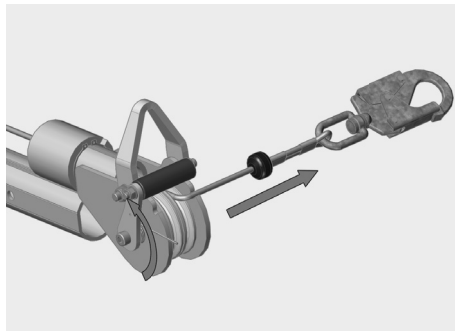
03

Remove the middle sheaves, feed the cable underneath and pin back into place. Take note of which sheave the cable is sitting on.



04

Pull the cable through the head and pivot so that it passes through the centre.



05

Place the cable through the notch in the head, pull the retention bar back.



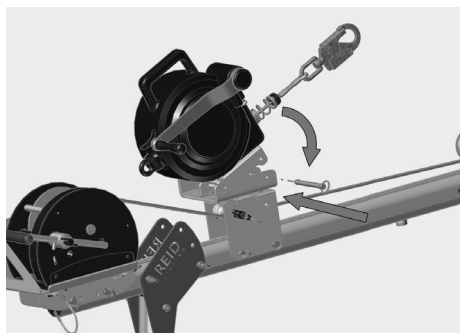
06

Pull the cable downwards and release the retention bar. Ensure that the cable sits in the sheave on the same side as the middle sheave.



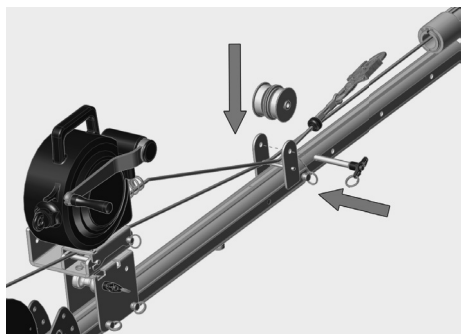
07

Using supplied detent pins, fit the PortX® SRL bracket to the arm. Ensure the cable from the PortX® winch fits underneath the bracket and contacts the roller.



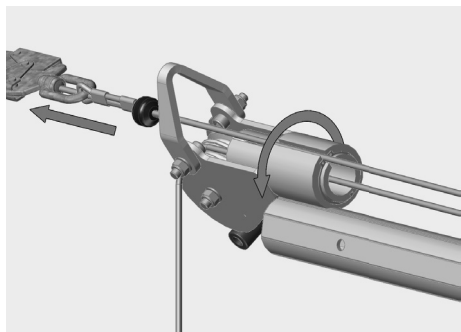
08

Fit the device and pin into place.



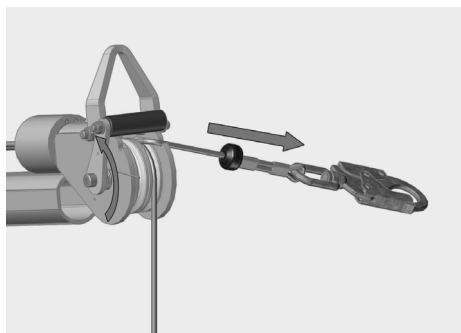
09

Remove the middle sheaves, feed the cable underneath and pin back into place. Ensure the SRL cables sits on the opposite sheave to the winch.



10

Pull the cable through the head and pivot so that it passes through the centre.



11

Place the cable through the notch in the head, pull the retention bar back.



12

Pull the cable downwards and release the retention bar. Ensure that the cable sits in the sheave on the same side as the middle sheave.



13

The Pole Hoist is now ready to be attached at the anchor point ready for use.



The PortX® Pole Hoist must not be operated unless the winch/ SRL cables are threaded underneath the middle sheaves.

TANK FLANGE ANCHOR

If relevant, the following component can combine with the PortX® Pole Hoist to allow for safe tank entry.

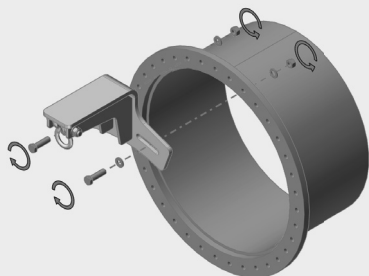


APPROPRIATE PPE MUST BE WORN

Gloves | Protective Footwear | Hard Hat

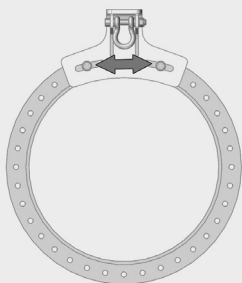


Maximum permissible hole diameter on tank flange - 20mm



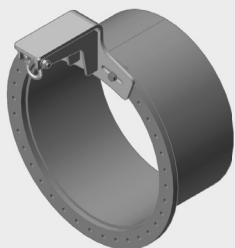
01

Position tank entry anchor onto the flange using nuts, bolts and washers supplied.



02

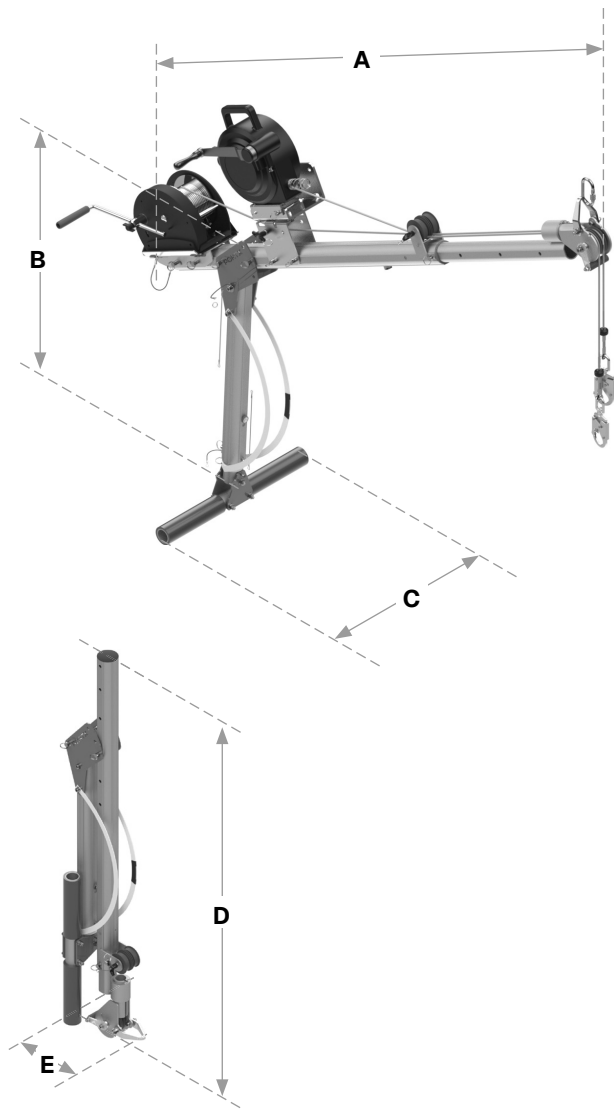
Ensure that the tank entry anchor is positioned centrally and the bolts are equally distanced from the centre.



03

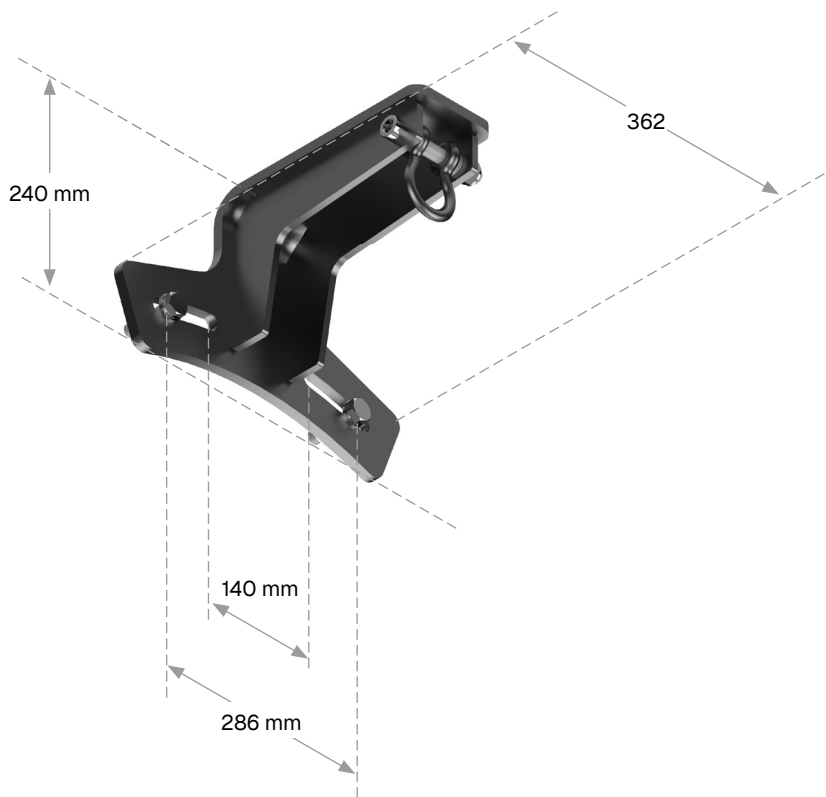
The anchor point is now setup ready for Pole Hoist attachment.

DIMENSIONS



Dimensions (mm)									
Product Code	Capacity (kg)		Reach		Height to Cheek plate		Width	Folded Length	Folded Height
	Materials	Personnel	A Max	A Min	B Max	B Min	C	D	E
PTXPH-2.1	500	140	2100	1571	1454	1054	620	1610	246
PTXPH-3.0	500	140	3000	2021	1454	1054	620	2060	246

TANK ENTRY FLANGE



QUALITY & SAFETY

REGULATIONS, STANDARDS & DIRECTIVES

This product complies with the following:

- ATEX Directive - 2014/34/EU
- Machinery Directive 2006/42/EC
- PPE Regulation (EU) 2016/425
- The Provision and Use of Work Equipment Regulations 1998 (S.I. 1998 No. 2306)
- The Lifting Operations and Lifting Equipment Regulations 1998 (S.I. 1998 No. 2307)
- In conformity with EN795:2012, AS/NZS 5532:2013 and PD CEN/TS 16415:2013

It is essential to adhere to the safety regulations of the respective country for using manual lifting equipment.

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.

REID Lifting is continuously audited by Lloyds Register Quality Assurance (LRQA) for approval of its Integrated Management System combining quality systems management, environmental issues and the health and safety practices within the company.

ISO 9001:2015 - Specifies requirements for a quality management system for any organization that needs to demonstrate its ability to consistently provide products that meet customer and applicable regulatory requirements and aims to enhance customer satisfaction

ISO 14001:2015 - Specifies the requirements for implementing environmental management systems throughout all areas of the company

ISO 45001 – Health & Safety Management System

LEEA Membership - REID Lifting is a full member of the Lifting Equipment Engineers Association (LEEA 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. Entry qualifications are demanding and strictly enforced through technical audits based on the Technical Requirements for Members

CONFORMITÉ EUROPÉENNE [CE] & UK CONFORMITY ASSESSED [UKCA]

REID Lifting's products have been designed, tested and approved (as appropriate) by the Conformité Européenne and UK Conformity Assessed. This certifies that REID Lifting's products meet the demands of the European and UK Directives and Regulations regarding Health and Safety requirements. The CE type-examination for this device has been carried out by SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland. (CE notified body no. 0598) and SGS United Kingdom Limited, Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, United Kingdom (UKCA approved body no.0120) in accordance with Module B of the Regulation (EU) 2016/425 and as brought into UK law and amended. The CE quality assurance system for this device has been carried out by SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland. (CE notified body no. 0598) and SGS United Kingdom Limited, Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, United Kingdom (UKCA approved body no.0120) in accordance with Module D PPE Regulation (EU) 2016/425 and as brought into UK law and amended.

TESTING

Testing and technical file review are integral parts of our design and manufacturing process. External verification of products is undertaken where appropriate, using government approved and notified bodies.

All products have been thoroughly type tested. Each product is supplied with a certificate of conformance and individual record of thorough examination or test.

LANGUAGE

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

PRODUCT IPR

Intellectual property rights apply to all REID Lifting Ltd products. See reidlifting.com for more details.

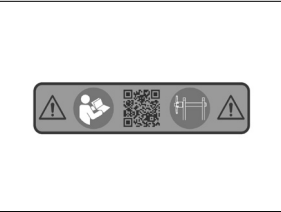
PRODUCT LABELLING

THE FOLLOWING LABELS MUST BE PRESENT ON YOUR SYSTEM AND MUST BE LEGIBLE.



01 - Serial

- x1 per anchor point
- x1 per left cheek plate

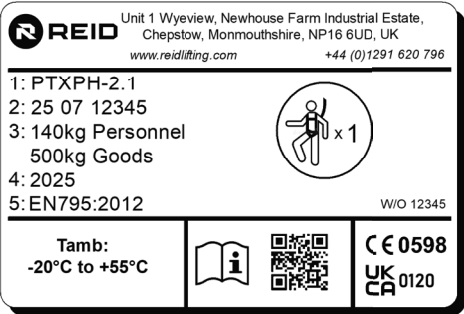


02 - Ensure pin fully engaged

- x1 per right cheek plate
- x1 per stand
- x1 per arm
- x1 per leg

PRODUCT IDENTIFICATION & INSPECTION RECORD

MARKING



The system is suitable for fall arrest applications. Specify number of users.
Max weight of 140kg.

THE SERIAL LABELS INDICATE:

- | The product identification number
- | The product’s unique serial number
- | The goods’ capacity (WLL) of the device
- | The year of manufacture
- | The standards to which the device is approved
- | The ATEX rating of the product (if applicable)
- | CE Marking
- | Minimum braking load (MBL)

INSERT DATA FROM SERIAL NUMBERS FOUND ON PRODUCT INTO TABLE HERE:

PERIODIC EXAMINATION & REPAIR HISTORY



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

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