



Bridge and gantry cranes

Personnel Lifting Solutions

VINCA's partner REID Lifting has over 15 years' experience of providing innovative, lightweight, portable lifting systems into a wide range of sectors and applications including Personnel Lifting (Man-ride) and Fall Arrest & Retrieval applications.

Such solutions are based around our PORTA-GANTRY and PORTA-DAVIT systems using best in class Personnel Positioning (Man-ride) winch systems, Fall Arrest & Retrieval units.

N.B. ALL lifting activity, particularly where personnel are involved, MUST be supported by a Risk Assessment and Method Statement documented by a Competent Person.

Please discuss all man-ride applications with our support team prior to any order to ensure maximum safety considerations.

A Cautionary Tale - Working At Height: 07/01/2010

Each year 50-60 workers are killed as a result of a fall from height and around 4,000 workers suffer serious injury. This is the biggest cause of death and the second largest cause of serious injury at work. It accounts for a large proportion of the cost of employers liability claims especially in construction related activities. The scale of the problem has prompted an EU directive on a common standard of safety rules throughout the Union. They bring together all the past regulations into one set and adopt a risk-based approach to working at height. The regulations take a three-pronged approach:

- If you can avoid the need to work at height then do so.

- Where you cannot avoid working at heights, you must take steps to prevent falls by selecting the most appropriate equipment taking into account the duration of the work and the environment.
- If any risks remain, steps should be taken to mitigate the effect by using arrest devices etc."

REID Lifting can help significantly reduce such dangers by providing Lightweight, Portable and Safe EN795: Class B rated anchor device solutions with Winch and Fall Arrest support as well as Restraint capability.

"Working at Height" considerations:

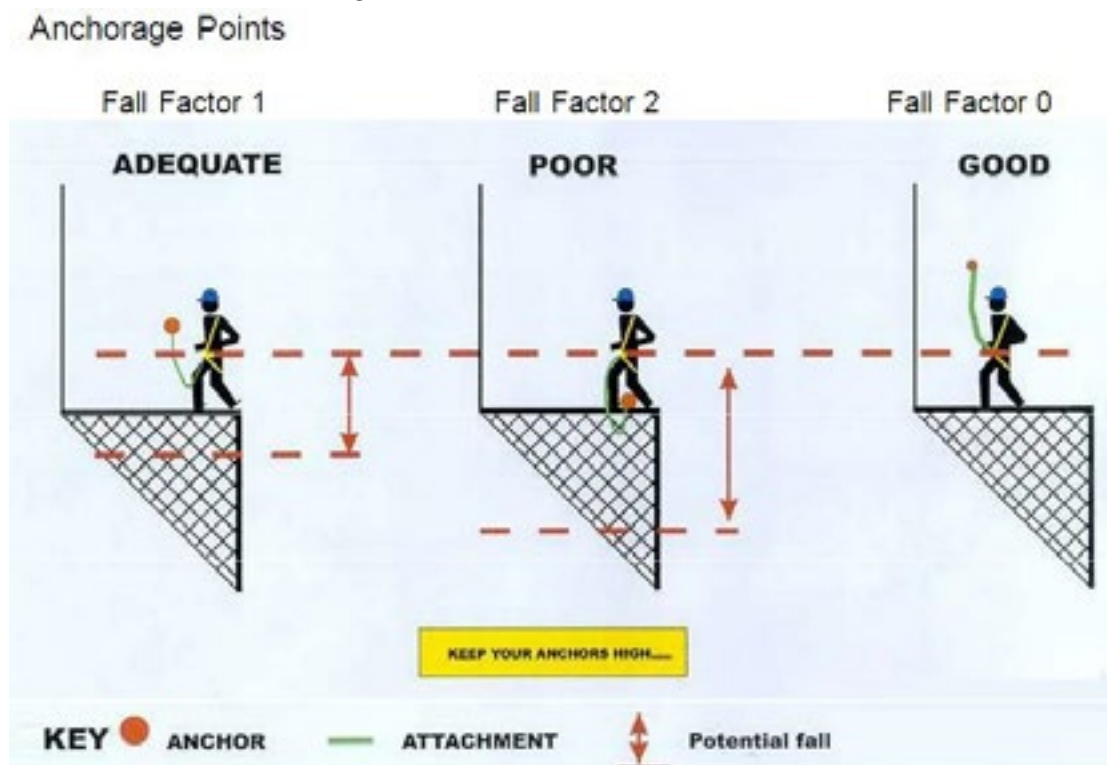
UK & EU H&SE regulations recommend a three-pronged approach:

- If you can avoid the need to work at height then do so
- Where you cannot avoid working at heights, you must take steps to prevent falls by selecting the most appropriate equipment taking into account the duration of the work and the environment.
- If any risks remain, steps should be taken to mitigate the effect by using arrest devices etc."

N.B. Recovery times are critical ...

Working at Height Anchor Considerations:

Taken from "Working at Height in the Water Industry"



PORTA-GANTRY EN795 Statement:

PORTA-GANTRY systems are fully EN795 Class B compliant as witnessed by Notified Body:

"The PORTA-GANTRY range of lifting gantries has been witness tested by SGS United Kingdom Ltd and fully complies with the requirements of EN 795:1997 for Class B anchor devices as per SGS report dated November 2007. The testing was witnessed at Glamorgan University with detailed results in Report No. 06T024 September 2007 by the Centre for Engineering, Research and Environmental Applications CERE of the University of Glamorgan."

Fall Arrest Protection:

- "PORTA-GANTRY systems with beams to 4570mm A Section; 6000mm B section and 8400mm D section are EN795 Class B compliant for 3 person Fall Arrest Protection – subject to the PPE equipment and Fall Arrest Units presenting a maximum of 6kN force upon a fall.
- Longer beams can be rated subject to REID Lifting's engineering review."
- MIXED Loads – Goods & Fall Arrest to be calculated...

Personnel Positioning (Man-ride):

- "EN795 Class B compliant for 3 person Fall Arrest Protection or Personnel Positioning Winching – subject to the PPE equipment/Fall Arrest Unit presenting a maximum of 6kN force upon a fall and suitable Personnel Positioning Winch ratings.
- Longer beams can be rated subject to REID Lifting's engineering review."
- MIXED Loads – Goods & Fall Arrest to be calculated...

PORTA-GANTRY Personnel Lifting (Man-ride) and Fall Arrest & Retrieval systems:

PORTA-GANTRY systems comply with the requirements of EN795 Class B anchor devices, giving Protection against falls from height.

Various standard options, as well as customised solutions, are available throughout the range including:

Personnel Lifting (Man-ride) winch system consisting of a Personnel Lifting (Man-ride) rated hand winch for primary entry and egress:

1. The winch (e.g. G-Winch, SALA, etc.) is positioned on the gantry A-frame giving the operator full control of the decent and ascent of the worker, a winch rope runs via a custom pulley system and a fixed beam trolley.
2. A direct connect (via the PG Trolley lifting eye) stand-off winch system (e.g. SALA winch + uni-pod, or DECO 2000) allowing the operator full control while safely standing away from the void.
 - An optional fall arrest unit, with or without a retrieval mechanism, should also be provided, this unit is anchored to a beam trolley.
 - Dual man-ride applications are also available.
 - The PORTA-GANTRY system can be dual rated - for man-ride and a separate rating for goods.

Personnel Fall Arrest & Retrieval system consisting of a Personnel (Man-ride) rated Fall Arrest and optional Retrieval Unit where there is a primary entrance and egress method, typically by ladder:

1. A suitably certified Fall Arrest unit (e.g. FA20 or FAB15) can be attached to an individual Trolley for self recovery applications.
2. A suitably certified Fall Arrest unit (e.g. FA20 or FAB15) can be attached to an individual Trolley with an optional Retrieval unit built into the FA20 or FAB15 unit (e.g. FA20R or FAB15R) or an alternative device positioned on the gantry A-frame with a winch rope running via a pulley and a fixed beam trolley. A Retrieval unit can also be attached on a separate Trolley if accessible.
3. A Fall Arrest with Integral Retrieval Winch unit (e.g. FA20R or FAB15R) can be attached to an individual Trolley, if accessible, or on the customized gantry A-frame giving the operator full control of the decent and ascent of the worker, a winch rope runs via a pulley and a fixed beam trolley.

A Restraint System can also be provided from the PORTA-GANTRY that provides an attachment point on the A-Frame for a restraint line that prevents the person from risk of falling into a void.

Example solutions:

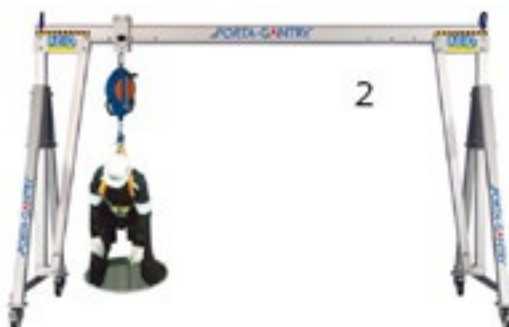


Standard PORTA-GANTRY system in use with DECO2000 Personnel Lifting (Man-ride) rated hand winch. The winch can be operated at a safe distance from the void.



PORTA-GANTRY system in use with SALA (Man-ride) rated hand winch and uni-pod support. The winch can be operated at a safe distance from the void.

Personnel Lifting Solutions



The Standard PORTA-GANTRY systems, WLL500 to 5000kg in S, M, I & T configurations with beam lengths to 4570mm, are all fully certified to EN795 Class B standards, for Temporary Anchor Points for Fall Protection and Personnel Positioning for 3-5 persons (other custom configurations can be rated upon request):

1. Option 1 shows a standard system with Master Link Trolley providing a Temporary Anchor Point with the use of a Fall Arrest unit for protection against falls, with self recovery.

2. Option 2 shows a standard system with Master Link Trolley providing a Temporary Anchor Point with the use of a Fall Arrest/Retrieval unit for protection against falls, with rescue/retrieval by another person, who will require restraint against falling.

3. Option 3 shows a standard system with Master Link Trolley providing a Temporary Anchor Point, with the use of a "Stand off" Personnel Winch for raising/lowering the person attached to the trolley master-link. The trolley and person can be moved along the beam to safe area. An additional Fall Arrest unit can be added if required. Additional trolleys can be added to suit the application.

Other custom configurations can be upgraded/customised to a "Winch Ready" version:

4. An upgraded "winch ready" system – with extended cheek plates with sheave & a fixed position Sheave Carrier Trolley option, providing a Temporary Anchor Point; with the use of a Fall Arrest/Retrieval unit for Fall Protection & Retrieval of the person, with bracket for the Trap Plate.

5. An upgraded "winch ready" system – with extended cheek plates with sheaves & fixed Sheave Carrier Trolley options, providing Temporary Anchor Points; with the use of a Personnel Positioning (Man-ride) Winch as well as a Fall Arrest/Retrieval unit for Fall Protection & Retrieval of the person, with brackets for the Trap Plates.

Custom solutions



Custom developed PORTA-BRIDGE for safe operation of PORTA-GANTRY and accessories over the void. Ideal for access to and emergency use of FAIW (Retrieval Winch) over void. Also showing barrier restraints.



Custom developed PORTA-GANTRY with restraint capability developed on the A-Frame for "Working at Height" compliance.



Custom Tall PORTA-GANTRY with FA (Fall Arrest) unit attached to trolley for "Working at Height" compliance – rated WLL240kg man-ride for two person Fall Arrest protection.

Custom solutions



South West Water: Pump maintenance – rapid deployment PORTA-GANTRY WLL 2,000kg with custom “Man-ride restraint” system.



Installation & Fall Protection:

Crossrail – Custom Fall Protection/PP

PG2000T Custom 7.5m D section beam, custom WUJL

Custom Man-ride and Goods configuration with:

- Personnel Positioning “G-Winch”

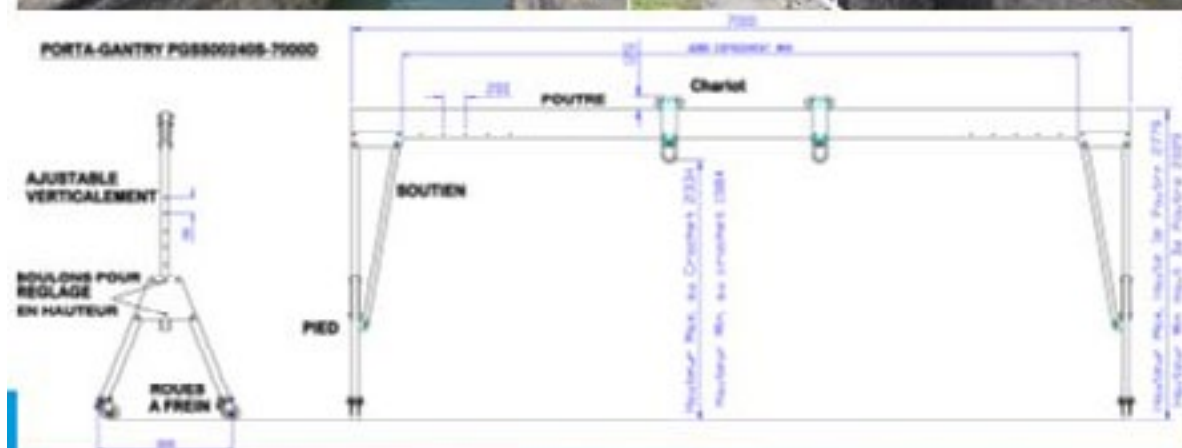
Tractel Blocfor Fall Arrest unit



Fall Protection – EN795

Waterways of France:

PG55002405-7000 custom gantry system to provide fall protection support for two people



Custom PORTA-GANTRY Personnel Positioning system – dual rated Goods WLL1000kg & Man-ride WLL120kg for Anglo Pumps

Personnel Lifting Solutions

A wide range of new innovative solutions are also available with REID Lifting's PORTA-GANTRY RAPIDE family of ultra-lightweight, rapid deployment gantry systems fully certified for up to 3 people Fall Protection or Personnel Positioning applications:



PORTA-GANTRY RAPIDE: Certifications

- EC Directive 89/686/EEC
- EC Directive 2006/42/EC
- EC Type Examination certificate EN 795: Class B
- ANSI, OSHA & CSA

REID Lifting - the best night's sleep in the lifting industry		
Systems arte type at UKAS accredited laboratories	Lifting Equipment Engineers Association (LEEAA) full membership	OHSAS18001 Occupational Health & Safety Management certification
Every individual system is fully inspected or tested prior to shipment	ISO9001 Quality Management System certification	Certification of products by relevant recognised bodies from sockets to systems
Full product design & development Technical Files are available for inspection	ISO14001 certification environment management systems and standards	Safe assembly, operation & maintenance manuals and training provided for all systems

Standards:

The PORTA-GANTRY fully complies with the following:

- Machinery Directive 2006/42/EC
- PPE Directive 89/686/EC
- EN795 Class B:1997 Protection against falls from height
- ANSI Z359.1-2007, ANSI Z359.6-2007, CSA Z259.16-04

Notified Body:SGS United Kingdom (Distinguisdhing No. 0120) Certificate GB12/85476



VINCA products

- Bridges crane and gantry cranes
- Jib cranes
- Hoists and winches
- Scissor Tables and scissor lifts
- Elevators/Lifts for loads (PLT)
- Dock levelers
- Moving Dock levelers (RMC)
- Coats Furniture
- Wheel-lok (Vehicle Immobilizer)
- Safety equipment for docks
- Vacuum lifters VACU-LIFT
- Industrial Manipulators
- Pallet Inverters /Tippers
- Levelers NIVELMATIC
- Tilters inclinators
- Skips
- Industrial fans
- Industrial flexible doors, high speed doors
- Cold storage doors
- Fire doors
- Safety gates DOK-GUARDIAN
- Festoon for mobile equipment
- Lifting appliances
- Industrial Radio Controls
- After Sales Service for above equipment

Ⓔ ATEX classified equipment as option.



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