

Crane Loading Platforms

CantiDeck



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Introduction

Our Vision

To deliver the highest quality innovation and service to change the places in which we live and work.

We do this by being the partner of choice for our people, our customers and our suppliers.

Our Approach

Conquip leads change in the construction industry by improving construction processes. Our team focuses on collaborating with our customers and partners to help speed up build programmes, reduce costs and minimise the impact of construction on the local community.

As a leading manufacturer of equipment solutions for the construction industry, we are unique in the way that we offer a complete service from on-site consultation and engineering capabilities, to hire and sales, followed up by our after sales support.

We're always striving to improve the industry that connects us, so we listen to our customers and partners to ensure we can provide safer, environmental and innovative solutions.

Engineering a Better Environment.



CantiDeck

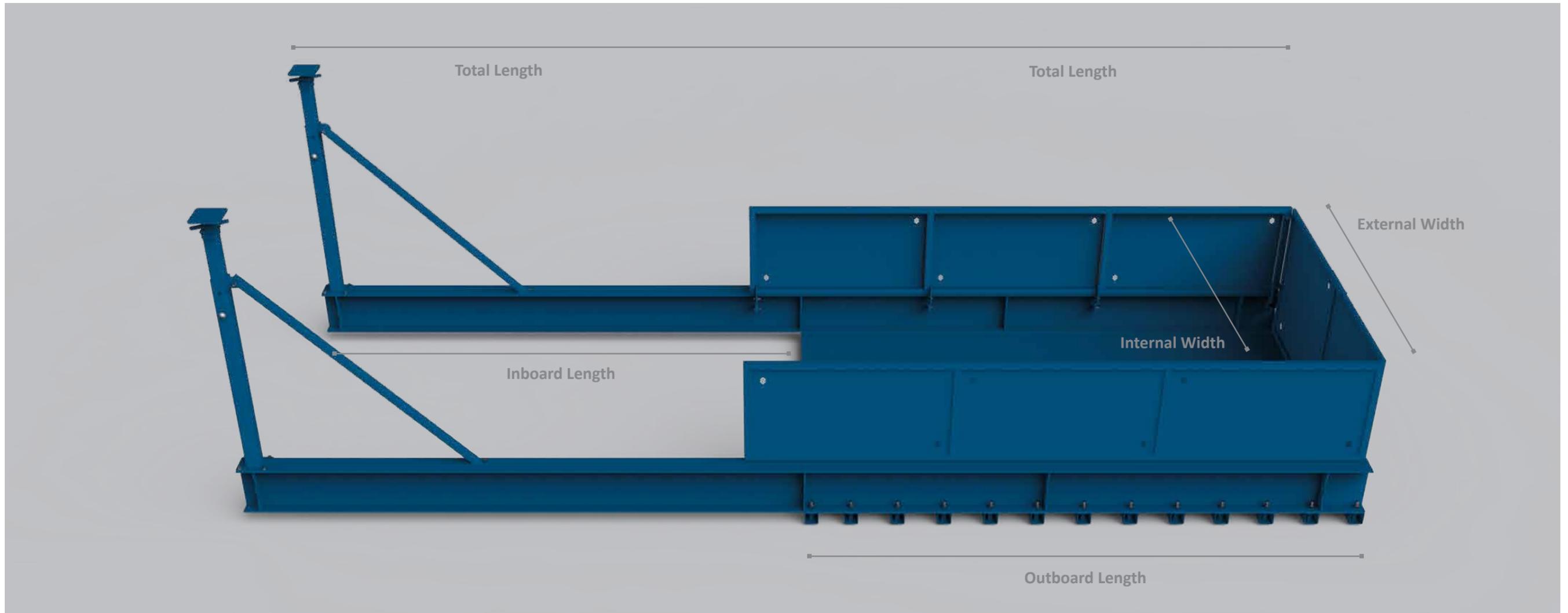
We identified that there were common issues that project teams face on site around vertical logistics and goods movements. Their concerns included: safety of personnel while working at height, inefficient crane movements and costly temporary works and scaffolding systems.

Setting ourselves a challenge to overcome these issues we talked to our clients to identify how we could make vertical movements more efficient on site. We focussed on the moving of awkward or heavy loads of goods or equipment in and out of a building during the construction phase.

Our design team proposed the concept of a temporary loading platform that could extend from a structure to allow materials and equipment to be loaded in and out of the building. The first model, the Fixed Flush system, was a great success with our customers.

CantiDeck was born.

Many new designs and developments followed, including the Super Roller and the CantiCrane. We went on to create a complete range of vertical lifting solutions for our clients, including goods lifting and crane lifting accessories. The CantiDeck brand is a key part of Conquip, providing daily innovation and engineering solutions for our customers.



CantiDeck Fixed Flush

The Fixed Flush CantiDeck platform is ideal for situations where reduced head room places height at a premium, and where maximum clearance is essential.

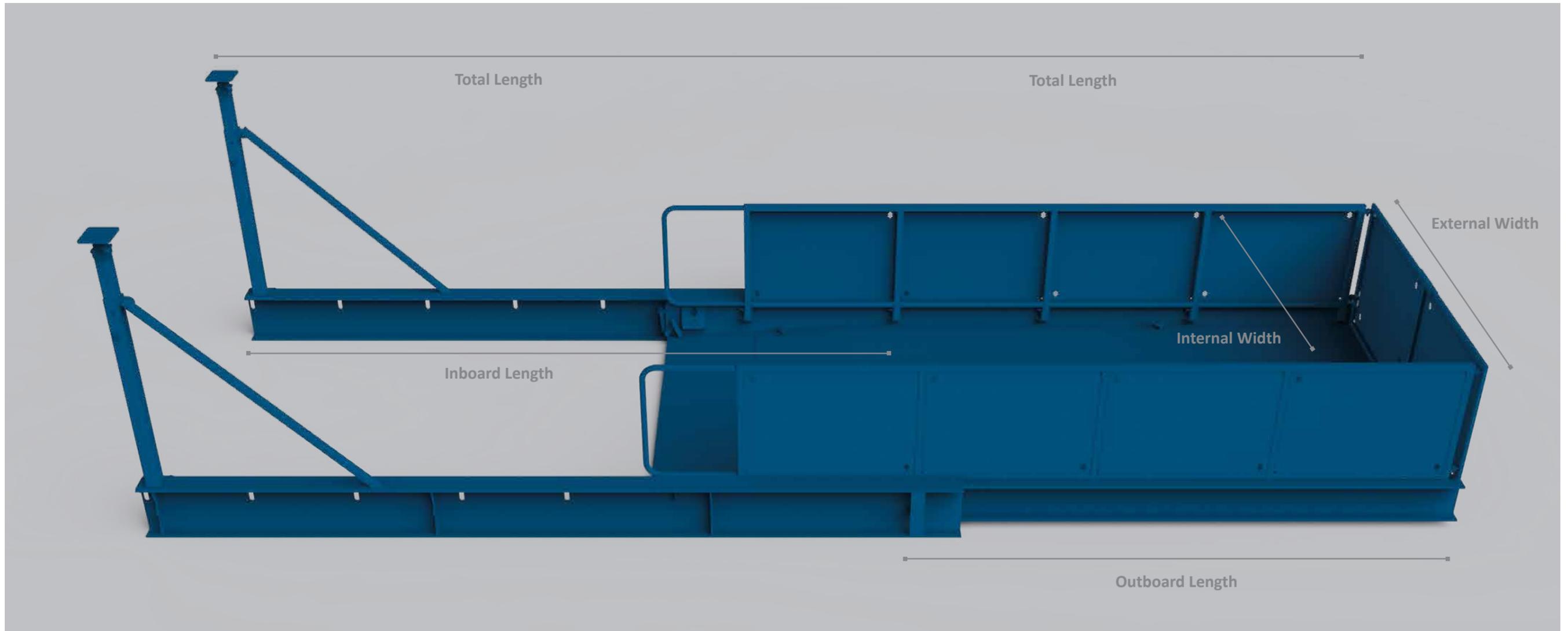
'Flush' Transition

The platform props into a structure by way of a simple propping system between floors. The deck of the platform is fixed to the base of the load bearing beams giving a true level, or 'flush' transition from the floor of the structure to the loading area.

Quick Installation

The design has become widely known as the fastest loading bay to relocate and install. Combined with a large Working Load Limit capacity and multiple configurations, this is an excellent choice for most projects.

Product Code	Max External Width	Max Internal Width	Outboard Length	Total Length	Self Weight	WLL ¹
FF20	2000mm	1500mm	4000mm	8000mm	2000kg	5000kg
FF24	2400mm	1900mm	4000mm	8000mm	2100kg	5000kg
FF27	2700mm	2200mm	4000mm	8000mm	2150kg	5000kg
FF35	3500mm	3000mm	4000mm	8000mm	3000kg	5000kg (8000kg in certain configurations)
FF45	4500mm	4000mm	4000mm	8000mm	3600kg	5000kg (8000kg in certain configurations)



CantiDeck Super Roller

The Super Roller CantiDeck is a rolling loading platform, which can be fully retracted within the building edge when not in use.

Multiple Platforms

Multiple platforms can be installed in a stacked configuration, meaning there is no downtime relocating platforms between floors. It also allows a reduction of dynamic loadings in high winds.

Single Prop

Its unique single prop design reduces both the weight of the decks and the reaction loadings to the structure.

Product Code	Max External Width	Max Internal Width	Outboard Length	Inboard / Closed Length	Total Length	Self Weight	WLL ¹
SUP22	2200mm	1500mm	3800mm	5850mm	9600mm	2700kg	3000kg & 5000kg
SUP29	2900mm	2200mm	3800mm	5850mm	9600mm	3000kg	3000kg & 5000kg
SUP35	3500mm	2950mm	3800mm	5850mm	9600mm	2970kg	5000kg



Configurations



Flat Head System

The flat head system is the standard configuration for securing loading platforms. It allows the platform to leverage off the ceiling of the structure, securing the platform in place.

Maximum Working Height

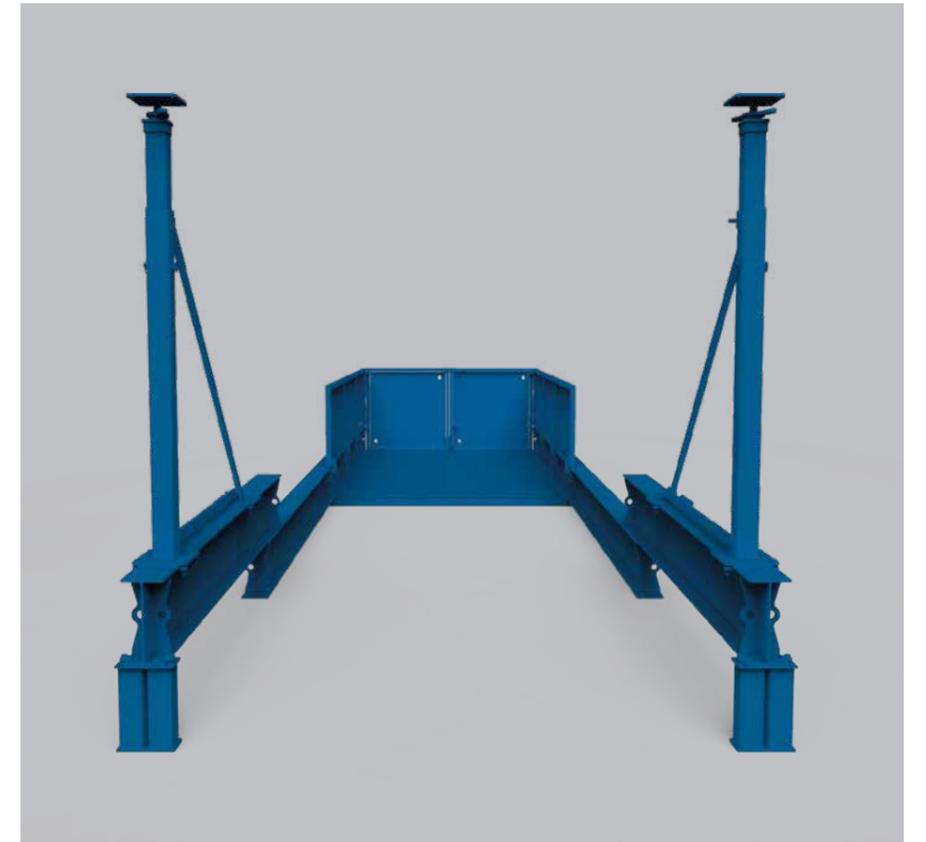
The working head room area is fully available. This is particularly useful when loading pods.

Fast Installation

The speed of installation makes this our most popular configuration.

Beam Extension

This configuration is an extended beam on the CantiDeck platform, allowing the prop to be further back in the building to reach available supporting framework.



Moveable Props

This configuration allows the props to be moved along the CantiDeck platform beam so they can be positioned exactly below the available supporting framework.



Bolt Down Anchor

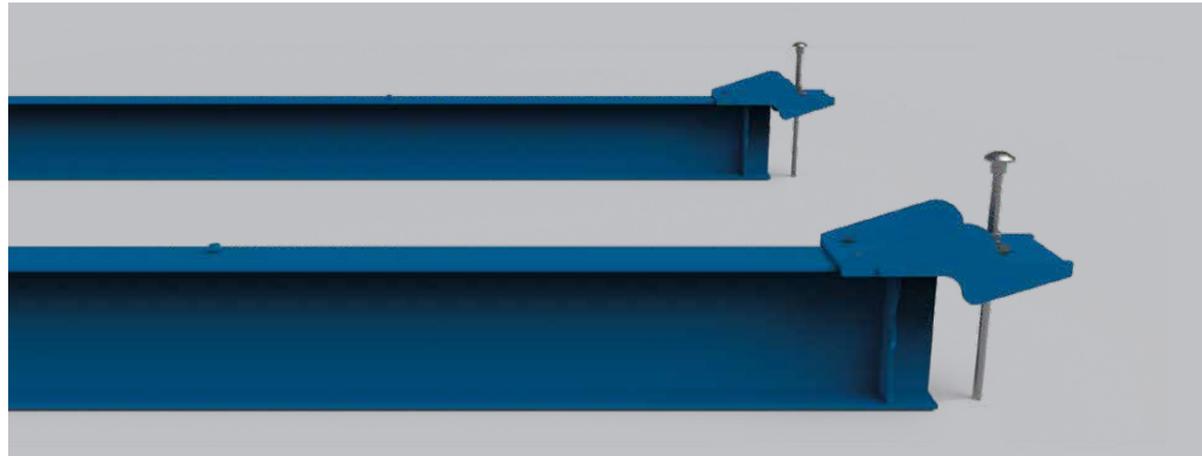
The bolt down system uses a fixing mechanism that bolts down into or through the floor of the structure. This system allows the CantiDeck platforms to be utilised without the traditional propping against a soffit or ceiling.

Versatile Applications

Available for use with unusually high ceilings or for subterranean access.

Reduces Awkward Loading

Useful when the framework of the building or nature of materials being loaded out prevents use of a standard prop design.

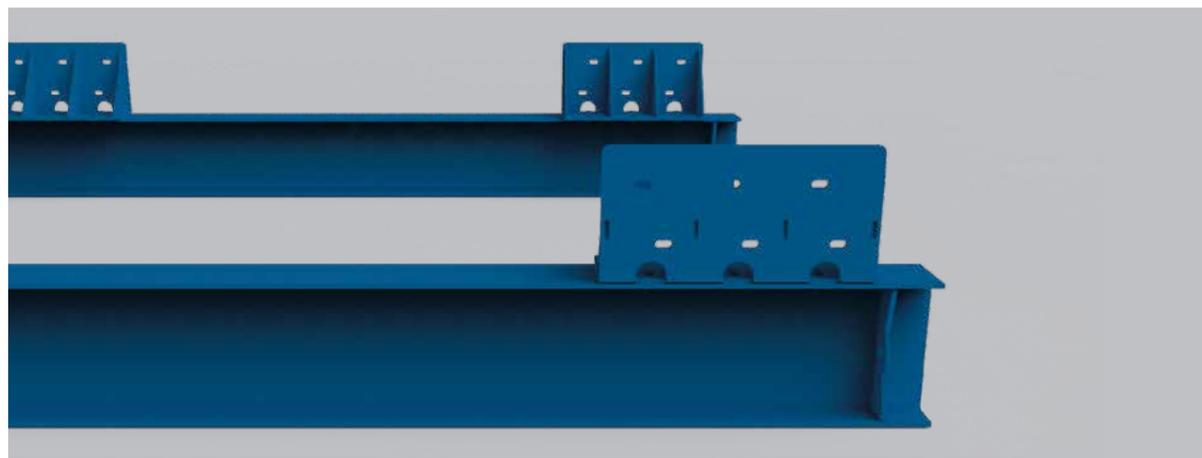


Side Bolted Anchor

The side bolted system uses a fixing mechanism that fixes the beams of the platform to walls on either side, if the configuration of the building lends itself to this. This system allows the CantiDeck platforms to be utilised without the traditional propping against a soffit or ceiling.

Versatile Applications

Available for use as the concrete core progresses or in some subterranean situations.



Structural Spreader Beam

When there is no solid floor or ceiling, our engineers will liaise with site engineers to ensure the loadings are acceptable and spread correctly. This is subject to load calculations.

Versatile Applications

Available for use with structures other than concrete, such as steel frameworks.



Extendable Prop

The interchangeable leg section can be reconfigured to give coverage of greater floor heights.

Increased Floor Height

Standard props are compatible with floor heights of between 2.2 – 3.4 metres. Using the extendable prop, heights of 4.7 metres can be achieved.

High Sides

Designed to provide extra protection for site workers both on and off the CantiDeck platform, particularly when banking awkward loads or slinging high level lifting points on a load.

Maximum safety

The high sides help to prevent materials and equipment falling from the platform.



Back Props

Back props are an extendable vertical floor prop designed to spread the load from the CantiDeck platform throughout a structure, if necessary in the given environment.

Compliance

Compliant with the relevant BS EN standards (BS EN 16031 and BS EN 1065).





Frames, Trolleys & Cranes
**Other
Solutions**



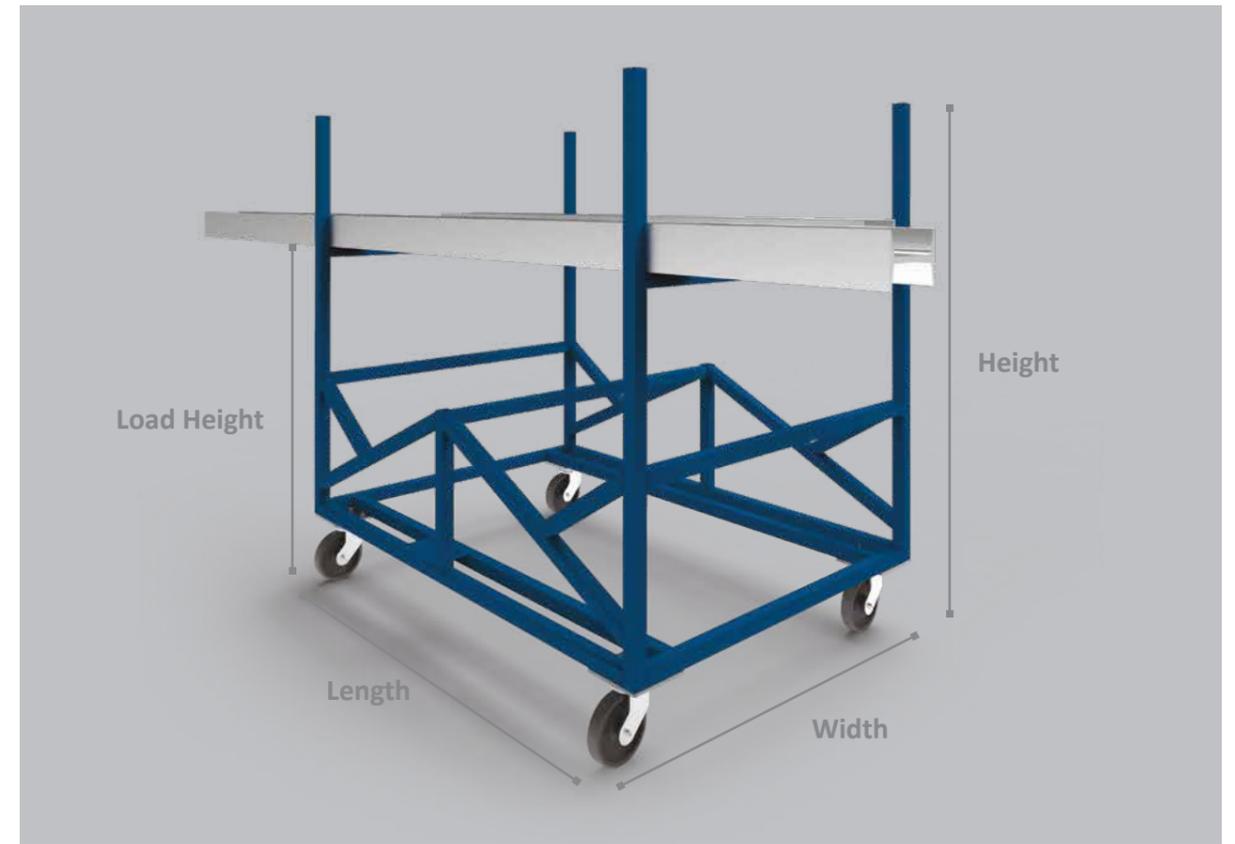
Pod Lifting Frame

For situations where the use of a CantiDeck is not feasible, the Pod Lifting Frame enables the transportation of pods to the required structure level. This is especially useful in buildings where there is not enough space for the loading platform beams, due to the internal structure having already been constructed.

Fits Flush

The frame fits flush against the building for easy transfer from the lifting frame into the building. The pod can be secured in the cage using the integrated attachment points, as can the frame be secured to the building when unloading.

External Height	External Length	External Width	Internal Height	Internal Length	Internal Width	Weight	WLL ¹
3075mm	5362mm	3385mm	2800mm	4000mm	3080mm	2250kg	3600kg



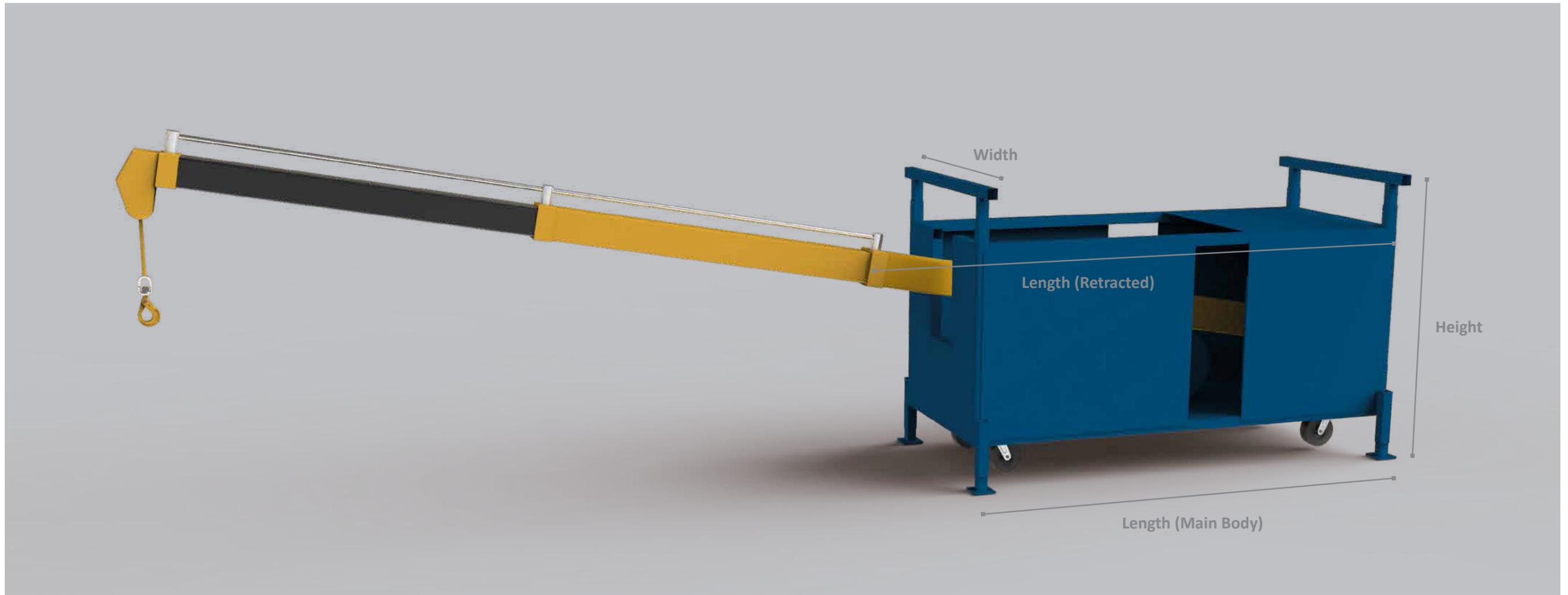
Long Load Trolley

The support trolley allows loads that are longer than the deck of the CantiDeck platform to be safely slung and lifted away without needing to open the doors at the leading edge of the platform, increasing safety.

Efficient Logistics

The robust framework can transport the awkward, heavy materials directly onto and around the floor of a structure without the need to double-handle the load.

Height	Load Height	Length	Width	Weight	WLL ¹
1960mm	1400mm	2000mm	1420mm	160kg	1500kg



CantiCrane

Designed to reduce total dependence on tower cranes on a project, the CantiCrane can be used in conjunction with the CantiDeck loading platforms to load materials and equipment in and out of a structure. It is most efficient when used with the Super Roller CantiDeck platforms as it can be used to move materials between floors quickly and easily.

Large Lifting Capacity

The CantiCrane is a durable system with a lifting capacity of 2000kg throughout the lifting boom length of 8 metres.

Increasing Productivity

It is a common challenge that tower crane time is scarce. By using the CantiCrane it can massively reduce the pressure on tower crane resource, speeding up project programmes and increasing productivity.

Height	Width	Length (Main Body)	Length (Retracted)	Extension (Max)	Weight	Lifting Capacity
2370mm	2070mm	4200mm	5600mm	8000mm	2860kg	2000kg



Case Studies

Case Study

Ebury Square

Overcoming limited space and lack of tower crane time on a prestigious high-rise residential scheme.

Contractor

Berkeley Group

Location

Belgravia, London, UK

About

Berkeley Group approached Conquip for an efficient system for vertical logistics. The solution involved our CantiDeck Super Roller loading systems with CantiCranes situated above, to lift materials from the loading bay to the platforms. Delivery trucks could be unloaded quickly into the loading bay, without the need for a crane.

The build programme ran to schedule, as the building could be loaded out efficiently. Specifically, the subcontractors could start fitout while the top floors of the building were under construction.

“When we planned construction of the site, we knew we’d have too much tower crane time taken by the frame contractor. To keep within our programme it was beneficial to use the CantiCrane to do the vertical lifting on one end of the site, which would help get materials loaded out ahead of schedule...We wouldn’t have been able to do it just with the tower crane so it’s made a major impact on the site. It’s been very beneficial for Berkeley’s, definitely a cost-saving.”

Senior Project Manager

Berkeley Group



Case Study

Bloomberg HQ

Overcoming limited space and lack of tower crane time on a prestigious high-rise residential scheme.

Contractor

Sir Robert McAlpine, Josef Gartner GmbH

Location

The City, London, UK

About

The arcade dividing the two building structures meant that access between the two blocks would be difficult above ground level. No footbridges were in place, which meant that site workers had to go to ground level before gaining access to the other block. The site was also extremely tight on material storage.

After discussions with Josef Gartner, a Permasteelisa company, our Projects Team put forward solutions to aid loading out, access and storage issues. We worked closely with them to ensure we met their requirements exactly.

Design, manufacture and installation of two CantiDeck Bridge Platforms to span the buildings allowed simultaneously load-out to both buildings as well as allowing site workers to move quickly between the two structures.

We also designed and manufactured large bespoke structural loading bays that were fixed on the roofs of the structures to allow extra on site storage space for cladding material.

“It was the only means of unloading and distribution.”

Paul Cooper / Construction Manager
Josef Gartner GmbH



Case Study

Guy's Hospital

Loading-out expensive radiotherapy equipment into the new Cancer Centre at Guy's Hospital.

Contractor

Laing O'Rourke, Rhenus Lupprians

Location

Southwark, London, UK

About

Typically, radiotherapy treatment centres are located in a basement, as the environment must comply with radiation shielding and vibration regulations. However, Guy's wanted to build the Cancer Centre above ground to improve the experience of patients, ie facilitating naturally lit waiting rooms.

The Linear Accelerators (LINACS) are heavy and expensive systems, weighing around 15 tonnes and worth millions of pounds each. The team at Guy's hospital needed a safe solution for transporting the 6 dismantled LINACS, approximately 18 sections, from the back of the truck to the second floor.

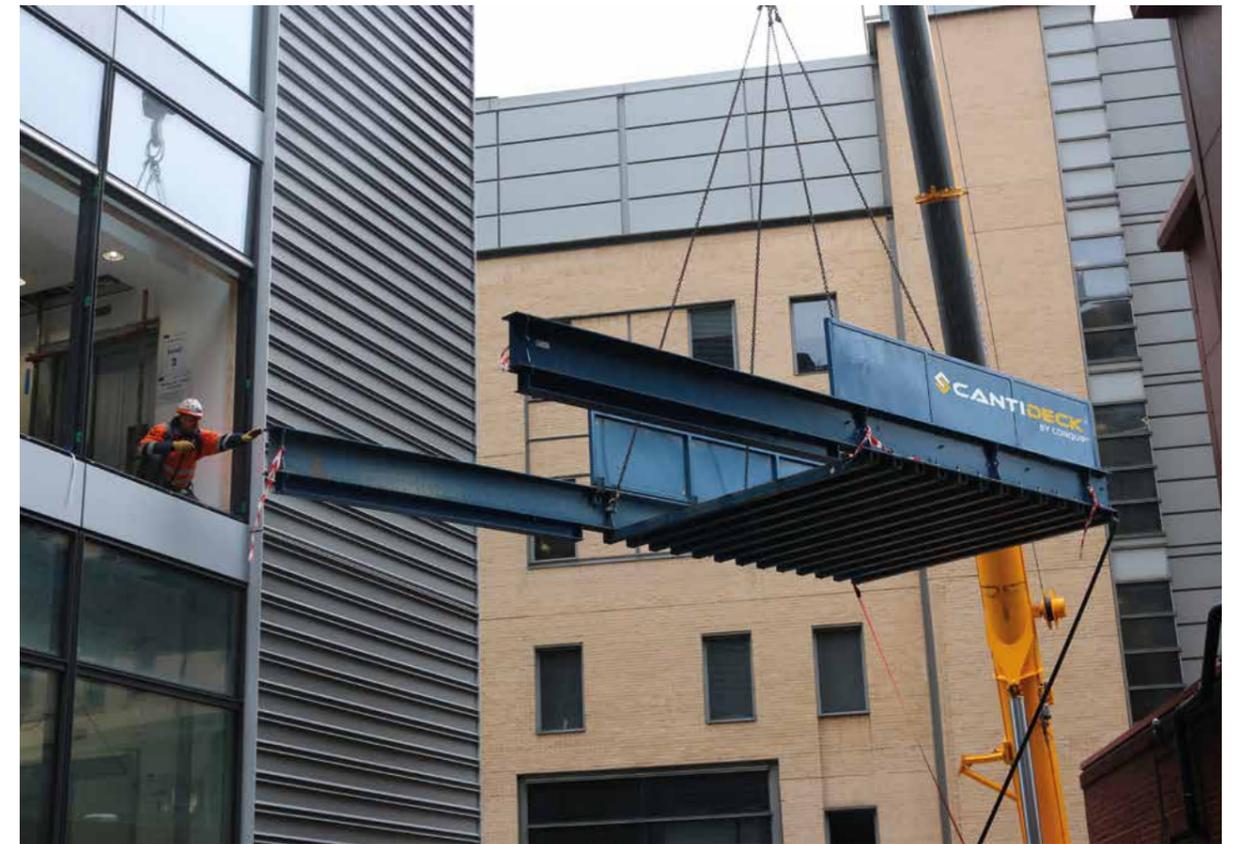
Our proposal was to install a Fixed Flush CantiDeck platform on the second storey. Each of the LINAC sections could be craned from the truck onto the 3.5m wide platform, before being moved, using a pallet truck, directly into the building, due to the flush transition to the structure floor.

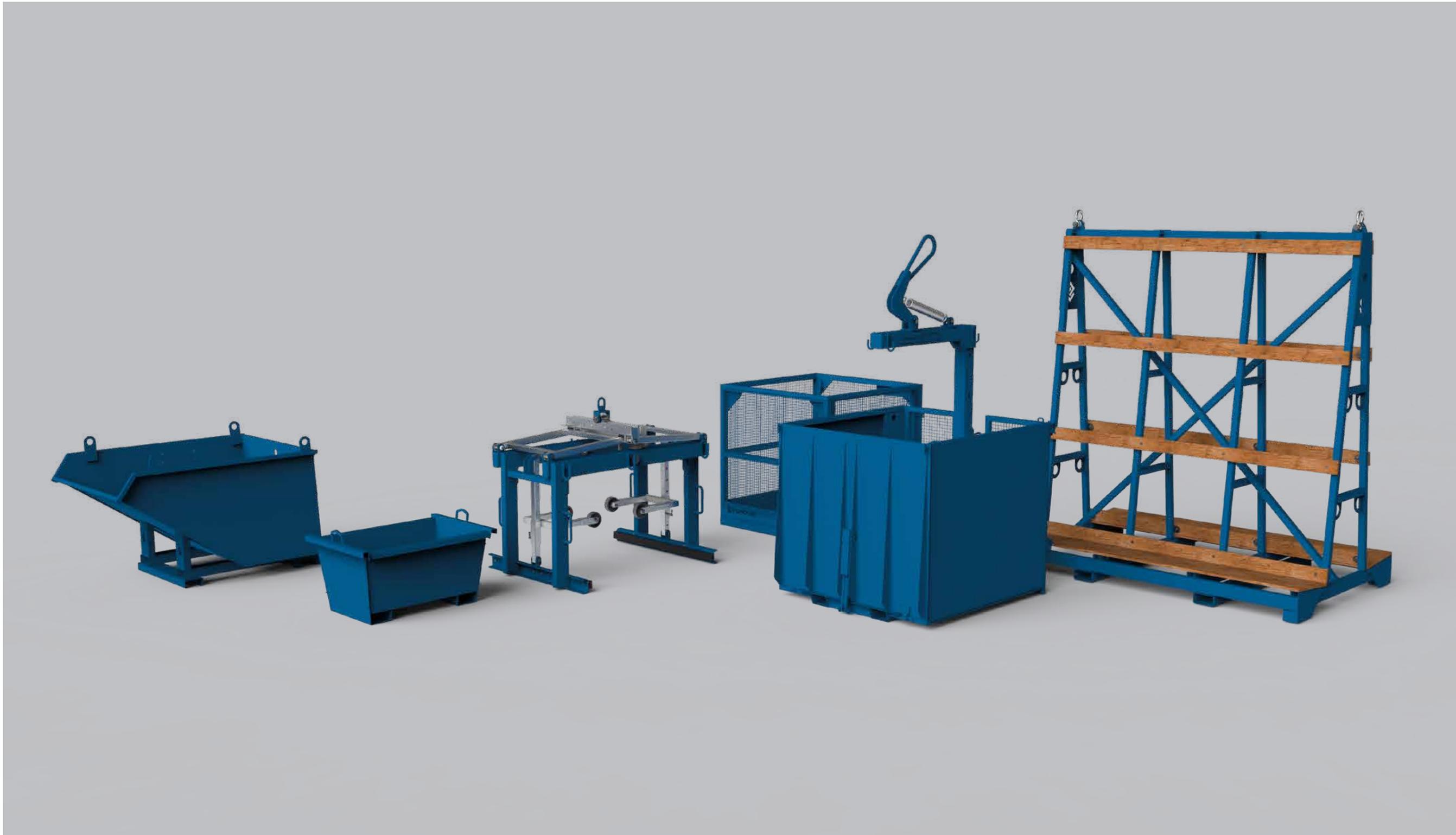
"I do know the CantiDeck has impressed them all, so I think your services will be required again."

Julie Edwards / Project Co-ordinator
Rhenus Lupprians Ltd

"It was quite a challenge to work out the details of delivering the heavy and complex equipment in through the second floor, as nobody had done it before, but everything went to plan."

Kate Bradley
Guy's Commissioning Manager





Associated Products

Conquip supply many other products that assist with vertical movement of equipment, materials and waste.

Talking to us is easy
We're here to help

Call us on 0845 520 1101
Email us at sales@cqegroup.com
www.cqegroup.com

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