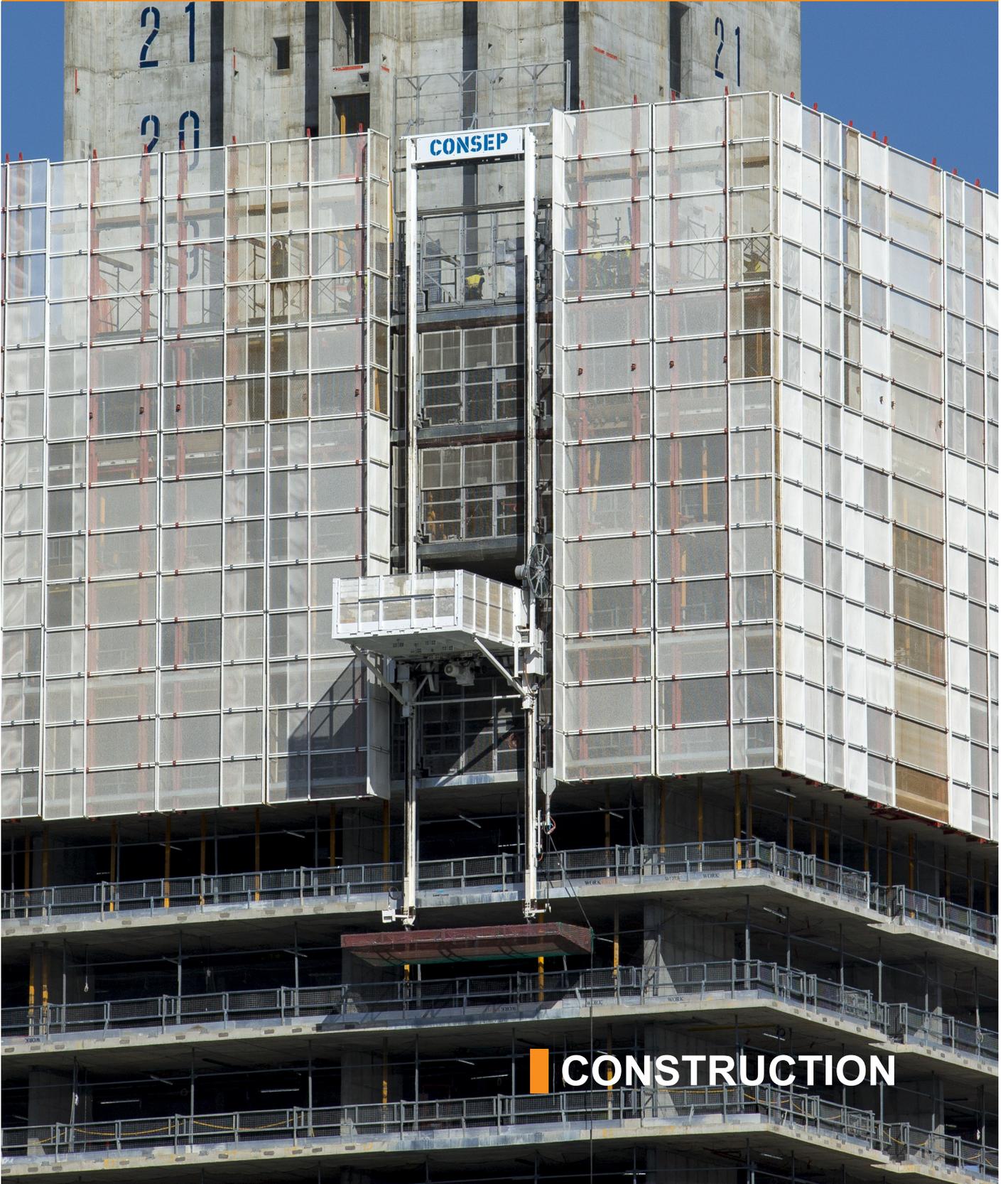


CONSEP
ENGINEERING INNOVATION



CONSTRUCTION



Consep Hoist

The Consep Hoist is a versatile materials hoist designed to eliminate dependence on the tower crane for efficient transport of all manner of materials used in high rise construction.

The Consep Hoist boasts many safety functions and features, its key ability though is the movement and handling of large volumes of material, safely and quickly.

With continued development the Consep Hoist has the ability to extend its use to many other operations required in the construction of high rise and multi-level buildings.

Key advantages of the Consep Hoist:

- Safe and efficient transport of construction materials
- Day zero access to poured deck
- Self climbing
- Movable crane landing platform
- Services buildings with variable floor heights
- 'No Gap' edge protection

Material is typically loaded on and off the Consep Hoist car in a simple roll on, roll off manner using powered or non-powered pallet jacks as required. Alternately, loose items can be loaded onto the hoist car by hand.

Material on the Consep Hoist car is fully contained

eliminating the need for strapping and preventing loose items coming free and falling while being lifted.

This offers significant safety and efficiency advantages over traditional crane lifting of materials.

The Consep Hoist is unique in its ability to provide true day zero access to the poured deck, minimising formwork cycle times. Material can be rolled from the Consep Hoist to the freshly poured deck as soon as concrete has cured sufficiently to be walked on.

The self climbing nature of the Consep Hoists offers full functionality entirely independent of the site crane following initial installation.

The Consep Hoist offers increased flexibility and complements site crane capabilities when used as a movable crane landing platform. This added feature facilitates the safe landing and picking of material by the site crane at all serviced floors. In contrast to traditional fixed landing platforms, a single load landed on the Consep Hoist is easily distributed over multiple floors by the Consep Hoist.

Consep, an ISO9001 Quality Management Systems and AS/NZS4801 OHS Management Systems certified company, is available to meet your projects materials hoisting needs.

Barangaroo South - A New Generation of Consep Hoist

Sydney's largest construction site, Barangaroo, currently boasts a total of eight Consep Hoists, with four more on their way.

In early 2011, Lend Lease identified Consep as a potential partner in the construction of three commercial towers, the main structures of Sydney's Barangaroo South development.

Consep worked closely with Lend Lease over the following 12 months to incorporate additional features into the existing Consep Hoist design to meet the specific requirements of the Barangaroo T1, T2 and T3 commercial towers. Specific requirements included:

- Live deck access & true day zero access to the freshly poured slab
- Significantly reduced vertical applied loads on slab edge
- Increased payload
- Extended travel to service five floors, including plant floors
- Crane landing platform capabilities
- Variable hoist car width
- Maximised availability
- Fully enclosed hoist car to a height of 3.6m
- Full height landing gates
- Leading edge protection
- No edge gaps
- Full conformance to Lend Lease Global Minimum Requirements (GMRs)

Consep rose to the challenge and proceeded to develop a new generation of Consep Hoist to meet these demanding requirements.



In early February 2012, having satisfied all challenges presented by the project, Consep was awarded the contract for supply of 12 Consep Hoists for use in construction of the Barangaroo Stage 1 Commercial Towers now known as International Towers Sydney.

Detailed design commenced immediately based on conceptual design already completed, with construction of the first four Consep Hoists following in turn. The first four Consep Hoists were delivered to the Barangaroo site in December 2013 / January 2014. The last four Consep Hoist were removed on project completion in June 2016.

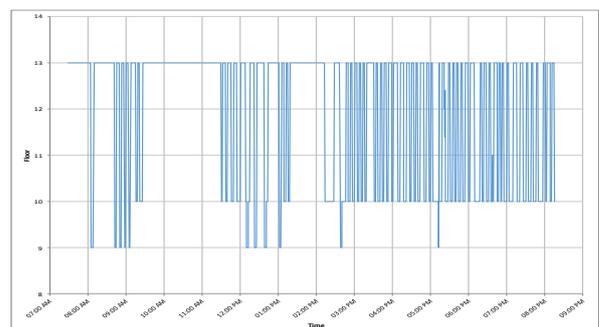
Final Barangaroo Consep Hoist Specification

Model	CH200
Day Zero Access	Yes
Remote Monitoring	Yes
Hoisting Payload	2,100kg
Static Payload	3,000kg
Landing Payload	2,200kg
Power	15kW
Speed	11.6m/min
Rail Centres	2.5 - 3.4m
Gate Opening	2.1 - 3.0m
Working Platform	2.2 - 3.5m (W) x 4.2m (D)
Car Screening	3.6m High
Rail Length	24m offering 17.6m travel
Imposed Vertical Load	2 x 39kN On 4 Floors
Landing Gate Height	3.0m
Levels Serviced	5 including plant levels

Within a week of commissioning, construction had hits its stride and the benefits of the Consep Hoist became evident.

Achieved Performance

Project Duration	2.5 years (636 hire weeks)
Consep Hoist Availability	99.64%
Average Time per Cycle	8 min (approx.)
Daily Average Cycle Time	11 min (approx.)
Cycles Per Day / Hoist	61
Formwork Area Per Day / Hoist	610m ² (approx.)





1WTC - The Consep Hoist in Manhattan New York

In 2008, Collavino Construction was awarded the concreting contract for the construction of 1WTC, the largest of the five buildings to be built on the World Trade Centre site in Manhattan New York.

In planning the construction Collavino Construction identified Consep's existing Hoist as a tool they could potentially utilise to ensure safety on the site and reduce costs on this very high profile project.

Collavino Construction approached Consep in 2008 to discuss the requirements of the project. Consep tackled the challenge head on, developing a new Consep Hoist to meet the unique challenges of 1WTC, including operation on a 3.5 degree inclined face, and other requirements of the North American market.

1WTC, officially opened in November 2014, now stands as testament to the versatility of the Consep Hoist in the construction of iconic structures.

EA - Engineering Excellence

Development of the Consep Hoist was recognised in the 2011 Engineers Australia, Engineering Excellence Awards.

Following the highly successful Consep Hoist installation on 1WTC, Consep was awarded 'Highly Commended' in the 2011 Australian Institute of Engineers, Engineering Excellence Awards.

This prestigious award recognised the significant engineering development undertaken to produce the modern day Consep Hoist, and its significance to the high rise construction industry.

Consep has continued to develop the Consep Hoist to meet the ever changing safety and operational requirements of an evolving industry. Of particular significance are more recent developments to meet the requirements of Lend Lease's Barangaroo project, and more broadly, Lend Lease's Global Minimum Requirements. Consep is confident that conformance to these requirements along with our in house engineering capabilities puts the product in good stead to meet the requirements of any project.



Consep Pty Ltd is committed to providing customers with long term satisfaction through innovative, cost effective products and solutions which answer the customers individual needs.

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