No more Tag lines

ROBORIGGER

Making lifting safer.

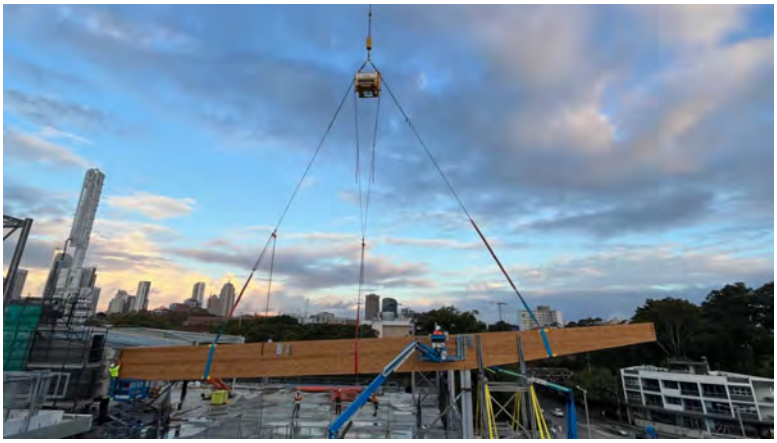
Wireless load control
and lifting data collection software.

How it Works

OUR TECHNOLOGY REDUCES COST AND IMPROVES THE SAFETY AND EFFICIENCY OF YOUR LIFTING OPERATIONS

Roborigger is a remote-controlled robotic device connected to the end of a crane's wire rope by hook. Our rotational technology controls a load's orientation without the risk of personnel being in the vicinity of the landing zone.

Roborigger rotates and holds loads in a desired orientation regardless of wind, meaning no taglines are needed to manage the spinning or the landing of a load. Roborigger is also integrated with IoT software that collects lift data in real time and pushes instantly to the cloud based customer platform.



INSIDE ROBORIGGER

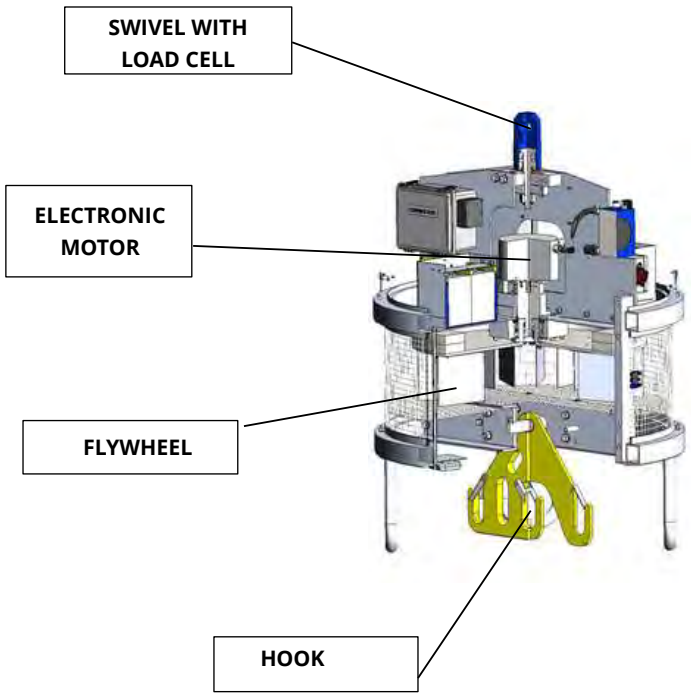
Roborigger rotates crane loads using inertial forces. The motor rotates a heavy flywheel, and the torque produced can be instantly applied to the load in either direction. Roborigger provides continual torque.

The control system has sensors which detect the heading of the load. When the button is pressed, the unit rotates at 10 degrees per second and when the button is released, the orientation of the load is mainted in current position.

ONBOARD LOAD CELLS

The weight of a load can be viewed on the screen remote control.The weight of every lift is logged and all overloads trigger an overload event which is logged.

The load is checked before the hook is actuated and onboard systems will record the load spectrum (no.of lifts and loads lifted) for use in determining maintenance, retesting, and service life.)



Value of Roborigger

Save up to $950,000 a year in cost reductions

HOW DOES ROBORIGGER HELP?

Roborigger greatly extends the operating window of lifts by reducing the negative impacts of windage. It also increases speed between lifts by allowing the dogman to orient the load whilst in transit - ultimately reducing operational down time and increasing the efficiency of lifting cycles. Wind stoppages are reduced as loads can be lifted in 5m/s more wind safely on average.

IMPROVE LIFTING EFFICIENCY

The cost of both loading bay crew and crane crew, as well as the hire of the crane, can usually range from $50,000 to $75,000 a month. Clients who adopt Roborigger's remote orientation device have seen lifting efficieny increase by 15%. Resulting in a **cost reduction of $7.5k a month.**

ACCELERATE CONSTRUCTION

Large construction projects incur a daily cost of site personnel and equipment between **$25,000** and **$100,000** per day, and a project typically lasts between 1 to 2 years (300 to 600 days).

Where logistics and craneage efficiency is improved, projects can accelerate the construction period by **1%** improvement, a saving between **$75,000** and **$300,000** per year.

REDUCE OPERATIONAL DOWN TIME

The loss of operation time due to a crane accident can cost as much as **$100K**. If a project can avoid one less incident a year, then Roborigger has saved you money.

USE DATA TO MAKE IMPROVEMENTS

Use the Roborigger IoT platform to measure your operational metrics with accuracy and implement changes and improvements. The IoT lifting data can be used to identify pain points and assist in resolution of claims. Historical data can be used for planning future operations.

These benefits alone can easily amount to a 1% efficiency improvement. A saving between **$75,000** and **$300,000** per year.

Roborigger AR15

The ROBORIGGER AR15 V4 is a load controlling system with a 15t WLL capacity. Roboriggers add value to your project by increasing lifting efficiency of the crane and its team an average of 15%. This is achieved by allowing orientation to be done whilst the load is in transit, there being no need to attach and remove tag lines, and having the ability to work efficiently at higher wind speeds. Erection of steelwork at height can be done using one or two fewer personnel as you don't need personnel on tag lines to do the orientation. Roborigger has a payback greater than three times its cost.

Using Roborigger allows orienting and landing lifted loads to be undertaken without tag lines and the need for people to be in the vicinity of the load. It also prevents loads from spinning and hitting structure which is a major cause of dropped objects. The safety benefits are significant.

The AR15 has sufficient capacity to control the orientation of a 20ft container in winds of 15kn (27km/hr 8m/sec) gusting to 20kn (36km/hr 10m/sec). The ability to control the load depends on the mass moment of inertia of the load, its windage and shape. If loads are compact and have relatively low windage (e.g. heavy mechanical equipment less than 6m long) the mass can be large and the allowable wind speed can be higher whereas if the loads are very long and have high windage (e.g. a crane boom or wind turbine blade), the allowable mass and wind speed will be less.

Each unit comes with the ability to use 2 remote controls to allow handover between 2 dogmen. This allows the team at street level to connect the load and set its orientation and then hand over to the team at the disconnection end. The load remains under control during the hand over process.

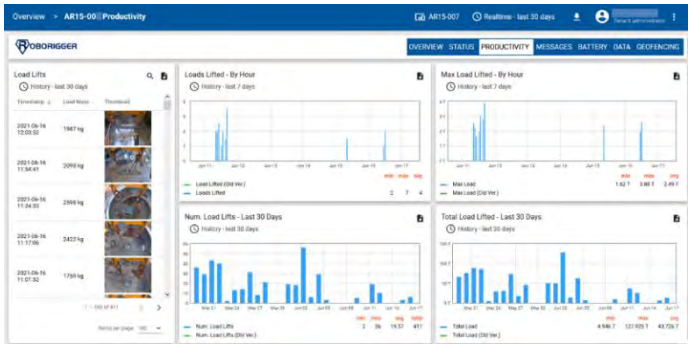
Roboriggers are designed for an ultimate capacity of 5xWLL and are load tested to 2xWLL.

The AR15 includes a bihook that can carry 15t on either side or shared between the two sides.

ROBORIGGER includes a video camera and load cell and is fully internet connected by Wi-Fi and 3g/4g so that all lifts are recorded on the internet database complete with date, time, location, weight and a high resolution image. Load ID can also be recorded. This gives the user the ability to track all loads lifted and to analyse performance and productivity.

AR15 unit

Remote control has weight readout



Data is captured and saved to the internet database

KEY FEATURES:

- Integrated load cell
- Integrated IP camera capable of providing video feed to crane and still pictures of load
- 3g/4g modem to provide internet connectivity
- Wi-Fi for transmission of video for use as crane camera or for remote monitoring
- Wireless remote using off the shelf 2.4 GHz or 433MHz crane controller
- 12 hour+ battery pack. Optional 24x7
- Onboard battery charger: input AC240V 10A single phase.
- Remote monitoring using ROBORIGGER IoT website

SPECIFICATIONS: WLL: 15 t

PROOF LOADING: 30 t

Module Size: 1.3 (diam) x 1.88 (height)

Operating temp: 0 to +55C

Weight: 820 kg

Design : AS1418 class U3 loading Q3

Fatigue life 100,000 cycles spectrum Kp=1

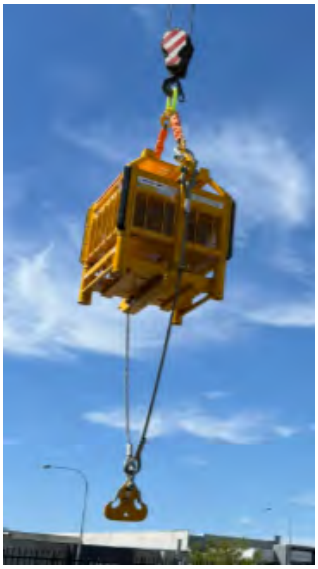
Design approval - Lloyds Register. CE approved

Roborigger ARMR1500-50

The Roborigger ARMR1500-50 RUGGED is based on the proven ARM1500 load control module but with a steel structural frame and a standard external battery pack. The ARMR1500 is designed for use in locations where there is a risk of the Roborigger contacting the structure. Examples include use inside a ships hold or being used for offshore lifting. Roboriggers add value to your project by increasing the lifting efficiency of the crane and its team by an average of 15%. This is achieved by:
allowing orientation to be done whilst the load is in transit.
there is no need to attach and remove tag lines
the ability to work efficiently at higher wind speeds is greatly improved.

Erection of steelwork at height can be done using one or two fewer personnel as you don't need personnel on tag lines to do the orientation. Roborigger has a typical payback within 6 to 12 months..
The safety benefits are also significant. Using Roborigger allows loads to be oriented and landed without the need for people to be in the vicinity. It also prevents loads from spinning and hitting structure which is a major cause of dropped objects and costly damage.
The ARMR1500 module has sufficient capacity to control the orientation of a 40ft container in winds of 15kn (27km/hr) gusting to 20kn (36km/hr). The ability to control the load depends on the mass moment of inertia of the load, its windage and environmental shielding or wind tunneling.
The ARMR1500-50 includes a removable battery skid incorporating forklift pockets which allows for fast interchange of battery packs for 24x7 operation. It is also possible to operate Roborigger continuously by providing a charging supply of 1.5 to 2.5kW through the 110VAC to 250VAC charging port.
Roborigger includes a video camera and load cell and is internet connected by Wi-Fi and 3g/4g so that all lifts are recorded on the internet database complete with date, time, location, weight, and a high-resolution image. Load ID can also be recorded. This gives the user the ability to track all loads lifted and to analyse performance and productivity. Other optional accessories include a floodlight, Smartscreen with remote video link, loudspeaker that allows the crane operator to talk to the crane crew using the loudspeaker, foot pedal controller, spare battery packs and a high speed external charger.

LIFTING CONFIGURATION OPTIONS



Data is captured and saved to the internet database

KEY FEATURES:

Integrated load cell
Integrated IP camera capable of providing video feed and still pictures of load
3g/4g modem to provide internet connectivity
Wi-Fi for transmission of video for use as crane camera or for remote monitoring (optional)
Wireless remote using off the shelf 2.4 GHz, 433MHz or 915MHz crane controller
12 hour+ battery pack. Optional 24x7
Onboard battery charger: input AC 110 / 240V 15A . Optional 30A charger.
Remote monitoring using IoT.
Onboard charging enclosure for remote controls.

SPECIFICATIONS:

WLL: 50 t (lift spreader capacity)
PROOF LOADING: 75 t
Module Size: 1.57 (W) x 1.76 (W) x 1.75m (H)
Operating temp: 0 to +55C
Weight: 2,700 kg
Designed to AS1418 class U3 loading Q3
Fatigue life 100,000 cycles spectrum Kp=1

Roborigger ARM1500-50

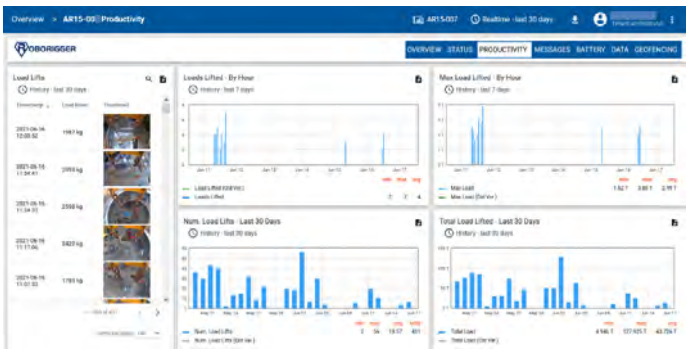
The Roborigger ARM1500-50 is a load controlling system based on the ARM1500 control module fitted with a 50t WLL spreader. Using Roborigger gives the following advantages:

Do the work faster. Orientation is done whilst the load is in transit - no need to attach and remove tag lines.
Do the work with less people. Erection can be done using one or two fewer personnel. You don't need personnel on tag lines. The structure can be lifted into its final position under wireless control.
Allow work to continue in challenging conditions. The ability to work efficiently at higher wind speeds is greatly improved. Loads can be safely lifted where tag lines would get caught on wires or structure.
Greatly improved safety. Loads can be landed without the need for people to be in the vicinity. Loads are prevented from spinning and hitting structure - a major cause of dropped objects and costly damage.
Payback is greater than three times its cost. Roboriggers add value to your project by increasing the lifting efficiency of the crane and its team by an average of 15% on routine works. On challenging jobs, the cost benefits are much more significant.

The ARM1500 module has sufficient capacity to control the orientation of a 40ft container in winds of 15kn (27km/hr) gusting to 20kn (36km/hr). The ability to control the load depends on the mass moment of inertia of the load and its windage.

The ARM1500 includes a lower support frame incorporating forklift pockets which can be left attached when in operation to allow easy set down or it can be removed for operation and the unit can be landed on the frame after use. For 24x7 operation, a battery pack can be included in this frame and by using 2 battery pack frames that can be swapped in a few minutes, operations can continue around the clock. It is also possible to operate Roborigger continuously by providing a charging supply of 1.5 to 2.5kW through the 110VAC to 250VAC charging port. This can come from a generator below (e.g. on a vacuum lift or magnetic lift spreader) or from a cable supply via the crane boom. We also offer a Diesel genset skid that can continually charge the unit.

ROBORIGGER includes a video camera and load cell and is internet connected by Wi-Fi and 3g/4g so that all lifts are recorded on the internet database complete with date, time, location, weight and a high-resolution image. Load ID can also be recorded. This gives the user the ability to track all loads lifted and to analyse performance and productivity. The IOT is also used for online condition monitoring.



Data is captured and saved to the internet database

KEY FEATURES:

- Integrated load cell
- Integrated IP camera capable of providing video feed to crane and still pictures of load
- 3g/4g modem to provide internet connectivity
- Wi-Fi for transmission of video for use as crane camera or for remote monitoring
- Wireless remote using off the shelf 2.4 GHz or 433MHz or 900MHz crane controller
- 12 hour+ battery pack. Optional 24x7
- Onboard battery charger: input AC240V 15A single phase.
- Remote monitoring using ROBORIGGER IoT website

SPECIFICATIONS:

WLL: 50 t (lift spreader capacity)
PROOF LOADING: 75 t
Module Size: 1.57 (W) x 1.76 (W) x 2.15m (H)
Operating temp: 0 to +55C
Weight: module 1,080 kg (without lift frame)
Weight: 1,900 kg including lift frame
Designed to AS1418 class U3 loading Q3
Fatigue life 100,000 cycles spectrum Kp=1

Roborigger ARM1500 - MODULAR OPTIONS

ARM MODULE WITH LOW PROFILE BASE

KEY FEATURES:

Stand-alone module that can be attached to a customer's spreader or a structure to provide orientation capability only
4 pins allow quick attach/release to structure or base
Two units can be stacked to double the orientation capability

SPECIFICATIONS:

WLL: not applicable
Module Size: 1570 (W) x 1570 (W) x 1500 (H)
Weight: module 1,080 kg

ARM MODULE WITH CONTAINER FRAME

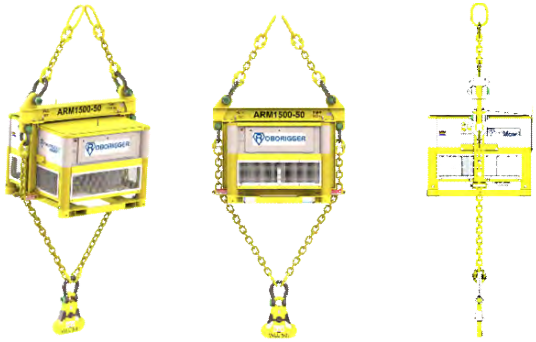
KEY FEATURES:

Designed to work with TEC container spreaders
Unit can be continuously charged from a generator, fed power from crane or it can use exchangeable battery packs for 24x7 operation

SPECIFICATIONS:

WLL: not applicable. Suitable for controlling 40ft containers up to 40t
Module Size: 1570 (W) x 1570 (W) x 1500 (H)

ARM MODULE WITH 50t WLL SPREADER AND HOOK



KEY FEATURES:

Bolt on spreader allows loads below to be connected from the end of the spreader or connected to a bridle with a bihook
Protection plate and sling support horns for easy stowing and connection of slings
Can support sling angles ranging from vertical to 45 degrees
Allows Roborigger to be above personnel and loads at all times and easy connection to hook

SPECIFICATIONS:

WLL: 50t (lift spreader capacity). Other capacities available on request
Weight: 1,900 kg
Dimensions: 1700 (H) x 1580 (W) x 2150 (W)

ARM MODULE WITH 50t SPREADER AND SLINGS TO CUSTOMER SPREADER OR LOAD

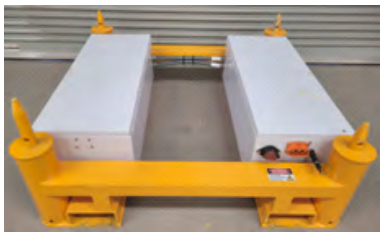
KEY FEATURES:

Bolt on spreader allows loads below to be connected from the end of the spreader
Protection plate and sling support horns for easy stowing and connection of slings
Can also be supplied in configurations up to 150t capacity for loads that are of appropriate windage and inertia for ARM1500 module (e.g. vertical lifting of tubulars up to 6m diameter)

SPECIFICATIONS:

WLL: 50t (lift spreader capacity). Other capacities available on request
Weight: 1,900 kg
Dimensions: 1700 (H) x 1580 (W) x 2150 (W)

24 x 7 OPERATION WITH GENERATOR SKID OR EXTERNAL BATTERY PACKS



KEY FEATURES:

For 24x7 operation, we provide 2 battery pack frames that can be swapped in a few minutes, operations can continue around the clock, one charging whilst the other is working. Diesel genset skid can permanently charge Roborigger for 24 x 7 operation.

SPECIFICATIONS:

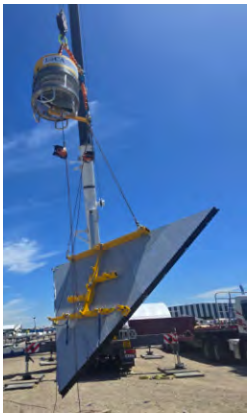
WLL: Not applicable
Weight: 350kg and 300kg
Dimensions: 1570 x 1570

Roborigger - OPTIONAL FEATURES

OFFSET LIFTING SYSTEM FOR AR15

For lifting of facade peices or precast panels that need to be placed up against existing structure, Roborigger offers our offset lifting system for AR15. This system offsets the pick point 300mm outside of the diameter of Roborigger, allowing for the load to be placed up hard against structure without Roborigger getting in the way.

The system uses Roboriggers own weight as the counterwieght and does not affect the WLL




GO TO MODE AND FOOT PEDAL CONTROL

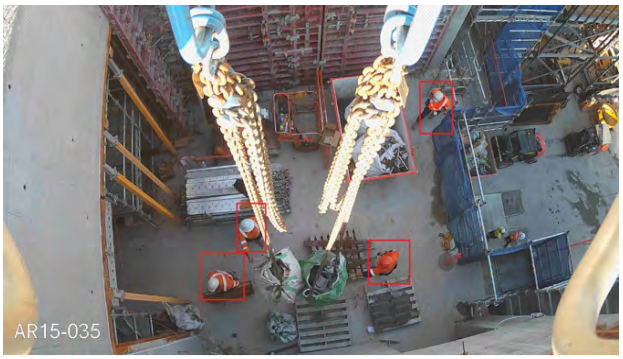
GO TO mode allows 2 pre-set orientations A and B to be saved. A single button press then re-orientates the load. This requires the optional 10 button remote control or the SmartScreen. A foot pedal control can be provided to allow the operation to be controlled by the crane operator. This is ideal for repetitive operations such as loading a ship.

SMARTSCREEN CRANE CAMERA, AUTOMATION, PERSONNEL DETECTION

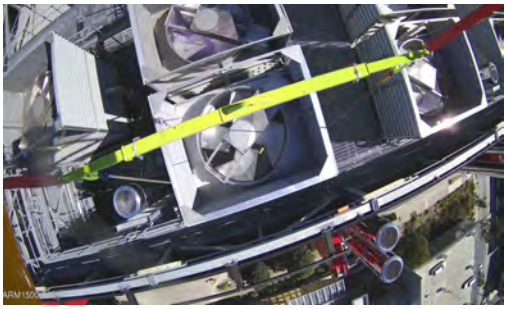
Roborigger units are equipped with high definition cameras capable of personnel detection, recognising when people are under the load, blowing the units horn for awareness

Roborigger can supply a live video stream from underneath the RR unit into the crane cabin offering the crane operator a clear view of the operation, even when 'working blind' lifting in areas with no visability. Crane operator can control the load using the smartscreen or footpedals

The video can also be fed into the site office network so this is viewable online in real time.





AF12 - FAN POWERED ORIENTATION CONTROL

The Roborigger AF12 is a load orientation controlling system that uses two lightweight fan modules. The fan modules are mounted on pallet sized bases that include forklift pockets for easy handling. They also have a lifting point at the top of the frame. The modules are self-contained and have a dedicated battery pack.

The fan modules are designed to be located on the structure to be lifted or the spreader, as far apart as reasonably practicable. They can be secured to the structure or spreader with cargo straps, load binders or other means. There are numerous holes, slots and lugs for different securement methods. After the lift is completed, the modules can be quickly removed and relocated on the next lift. The units have wireless connection.

The AF12 has been designed to control the orientation of long and heavy items such as assembled crane jibs, bridge girders, Precast concrete elements, smaller wind turbine blades etc. The ability to control the load depends on the mass moment of inertia of the load, its windage and shape. It is expected that the unit will be able to control the orientation of girders up to 50m long and 300t in weight in winds less than 5m per second. Open structures such as crane jibs will be controllable in significantly higher winds.

The AF12 is operated by a single remote control. ROBORIGGER is fully internet connected by 3g/4g and can be set up so that all lifts are recorded on the internet database complete with date, time, location. If a load cell is available (RS485 input) or if an IP camera image is available, the weight and an image will also be captured and logged. Load ID can also be recorded. This gives the user the ability to track all loads lifted and to analyse performance and productivity.

KEY FEATURES:

- Wireless remote using 2.4 GHz or 433MHz crane controller
- 3g/4g modem to provide internet connectivity
- Remote monitoring using ROBORIGGER IoT website
- Optional load cell
- Optional IP camera capable of providing video feed and still pictures of load
- Can be attached to load or to spreader
- Multiple attachment points for simple attachment to structure or spreader

SPECIFICATIONS:

Module Size: 1.4 (W) x 1.0 (D) x 1.9m (H)

Operating temp: 0 to +50C

Weight: 350 kg each module

Charging: Standard 10A 240V cable. Charging takes approximately 6 hours

Duration: battery pack suitable for an estimated 30 lifts

WRH -Wireless Release Hooks

REMOTE RELEASE HOOKS - Wireless remote hooks allow for the remote release of landed loads via remote control. This hook is designed to be released using a wireless remote control with up to 300m range. The hook has a simple construction inside such that mechanical components can be serviced on site. The hook is opened using an electric actuator with IP65 waterproof protection.

Safety considerations include both electrical and mechanical locking when under load, and two button press for operation to avoid accidental operation. When under load, the shackle moves the lock across to lock the ability to open. The hooks can be opened when all but the rigging weight is removed from the hook (around 150kg) and can be opened independantly or all together.

These hooks allow for the safe, quick and easy removal of the rigging from the load, removing the requirement for workers to use working at heights, and EWP to access the rigging, saving time and manpower on projects and simplifying lifting operations in areas with difficult access.

MULTI HOOK BULKER BAG SYSTEM - The Roborigger bulker bag hooK system uses any number of our 1.5t WLL hooks all controlled from a single box that is mounted to the spreader. This ensures that all hooks open together and there is only one battry to charge that powers all hooks. The control system detects that all hooks are safely closed before the lift. Hooks cannot open under load.

WRH KEY FEATURES:

- Wireless Remote operation
- Rechargeable hook and remote
- Safeguarded against opening under load
- Custom transport skid
- Various options for WLL

WRH SPECIFICATONS (85t)

Hook Size: 660 (W) x 400 (D) x 800 (H)

Weight: 170 kg

Charging: Approximately 4 hours

WLL: 25t, 55t, 85t options

1.5T SPREADER HOOK FEATURES:

- All hooks run off one battery
- Rechargable hooks and remote
- Safe to lift, cant open under load

1.5T HOOK SPECIFICATIONS

Hook Size: 250(w) 380(h) 60(d)

Weight: 8kg

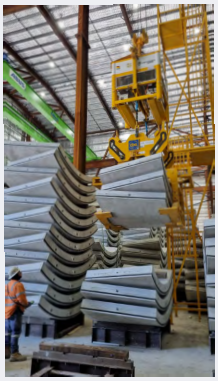
Charging: 10h approximately

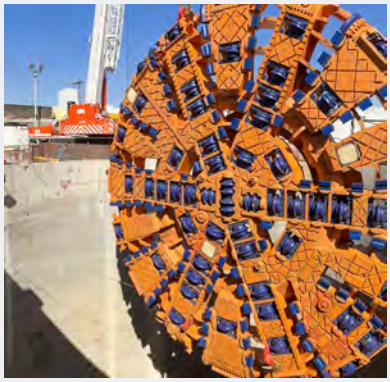
Customer examples

acciona

Tunnelling and rail. A 24 x 7 operation

Acciona, along with Ferrovial, are using Roborigger equipment on the Sydney Metro tunnelling project under the streets of Sydney Australia. It allows the simple and safe orientation of the tunnel segments as they are unloaded, stored and fed down the shaft to the TBM. Other Acciona projects using Roborigger include Western Harbour Tunnel and ASWA desalination plant.





JRL GROUP

Facade Installation - 100% productivity increase

JRL and London Tower Cranes are using Roborigger AR15 units along with offset lifting beams to install facade and curtain wall to several highrise projects .

With Roborigger they have *doubled* the amount of facade pieces, installed per day

MULTIPLEX

Sydney Fishmarket - Glulam Beam installation

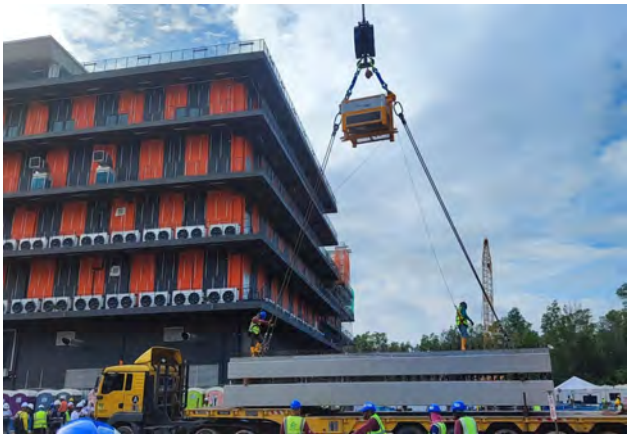
Multiplex, as the delivery partner of the NSW government used Roborigger ARM1500-50 unit to install 32m long x 1.8m high glulam beams. As an exposed marine site with high winds and a tight construction programme, Roborigger ensured there was no damage to the beams and allowed work to proceed in wind strengths that would have previously be unworkable.

LEIGHTON

Roborigger in Asia

The Vantage Data Centre , Cyberjaya in Kualar Lumpur, Malaysia was completed using Roborigger technology to safely and efficiently install the precast concrete beams, panels and elements. Other data centre deployments include SGP2, KUL21, S3 and S4, M2, D1S2 and others.

Leighton has been adopting Roborigger's introduction across Asia for its projects.



Customer examples

Underground Rail Station with lift shaft access

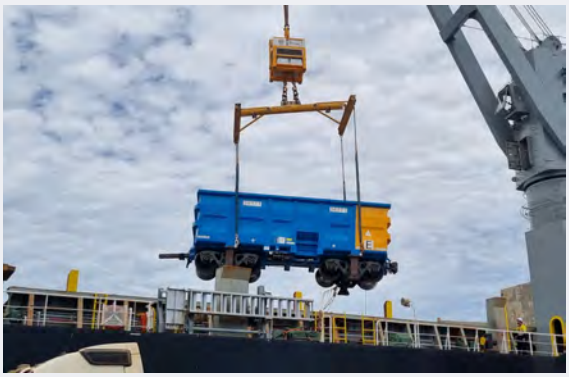
Lendlease used Roborigger for 2 years at Sydney's Victoria Cross Integrated station project. Materials for the underground section were lifted through a lift shaft requiring accurate control for safe operations.. The team went on to use Roborigger in the high rise built above the station

Specialist Lifts require specialist equipment

John Holland needed precise control to install the lift shafts on the Keon Park Project in Victoria. The heavy lift shafts come complete with the glass installed and needed to be lowered into the tight opening that sorrounded the shaft without damaging the glass.

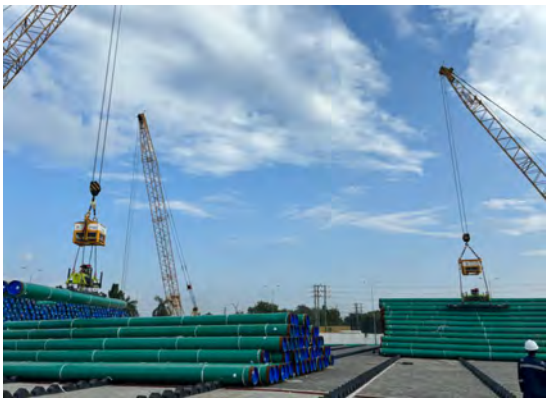
Automating Port Operations for Breakbulk

QUBE are using Roborigger to help control the breakbulk cargo unloading for their port operations in Dampier. The equipment allows them to controll the load without workers having to be in the danger zone and significantly increases productivity. The system is configured for 24 x 7 operation



As safe as a project can be

EALS and Total Energies wanted their pipehandling operations to be "as safe as they possibly could be" so they employed 3 Roborigger units, complete with vacumm lifters to make the operations completely "hands off". Each crane only requires one dogman, and can lift, orientate and drop the pipe in 8m high stacks completely by remote, without anyone touching the load. And significantly faster than could be done manually.



Industries

SHIPPING AND PORTS

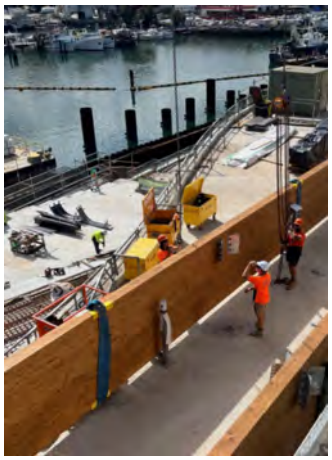
Roborigger has been used increasingly within the shipping market, providing precise control for the loading and unloading of vessels including containers and breakbulk like steel, timber and project loads.

It is proven to reduce the amount of time taken to load / unload a vessel, allowing for faster turnaround times and safer operations.

Ports such as Gladstone, Tauranga and Dampier have implemented Roborigger as a valuable tool for their operations.

Roborigger is working closly to deliver an integrated solution using their BA350-E container spreader with Roborigger control module built in.

This allows full control of containers without workers required near the load - connection, handling and dissconnection all by remote control



HIGHRISE CONSTRUCTION

Highrise construction across the world has been using Roborigger to increase productivity and safety for their workers and to overcome common problems in the lifting industry; such as wind / adverse weatherand limited access to control loads.

On inner city sites, lifting long loads up the side of buildings used to be risky, with wind able to rotate the load into windows or over public space. Roborigger solves this. Some other applications include:

- Installing facade and curtain wall
- Precast concrete beam and panel installation
- Structural steel
- Precast concrete cores / lift shafts
- Shutters and jumps
- Bondek, roofing, timber / glulam beams

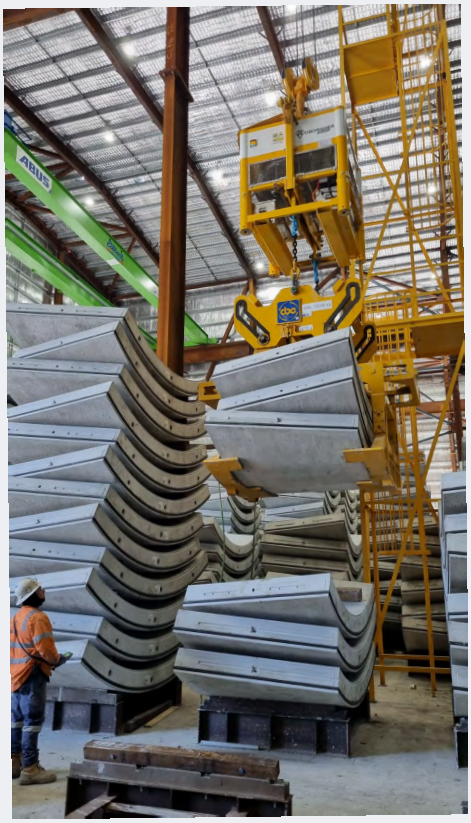
Industries

TUNNELLING

Roborigger is particularly useful in repetitive lifting that requires good control of heavy loads.

The technology is being used in Government rail tunnelling projects such as NSW Metro Rail, Western Harbour tunnel and the Alkimos Desalination Plant where it handles the tunnel segments as they were received, stored and lowered into the shaft to meet the TBM.

Handling of spoil skips and working safely in deep excavations is another key example where rectangular loads can be lowered into penetrations and between props and shoring obstacles under control of the Roborigger unit.



OFFSHORE AND SUPPLY VESSEL USE

The Roborigger ARMR1500-50 RUGGED is based on the proven ARM1500 load control module but with a steel structural frame and a standard external battery pack. The ARMR1500 is designed for use in locations where there is a risk of the Roborigger contacting the structure. Examples include use inside a ships hold or being used for offshore lifting.

The ARMR1500-50 includes a removable battery skid incorporating forklift pockets which allows for fast interchange of battery packs for 24x7 operation. It is also possible to operate Roborigger continuously by providing a charging supply of 1.5 to 2.5kW through the 110VAC to 250VAC charging port.

Roborigger can supply a hook bridle for the attachment and handling of ‘pre slung’ loads where four legs terminate in a single masterring attachment to the crane hook. Roboriggers patented hook design provides great control of the load even with this setup.

Industries

PIPE HANDLING

The ability to remove workers from the danger zone when lifting is a huge leap forward in lifting safety and pipe handling has been a very successful sector for this.

Roborigger is being used to make the whole lifting process hands-free on the East African Crude Oil Pipeline project in Tanzania. Only one dogman is required per crane. Companies including Leighton Asia, Woodside, and Shawcor have also used the technology to improve efficiency and ensure the safest possible operations.

PRECAST / STRUCTURAL STEEL

Rotating and controlling heavy precast and structural steel while in the air is not easy with taglines, and often workers can't reach taglines to keep the load in control.

Roborigger allows the quick, simple and safe movement of these loads, allowing the crane to operate safely in higher wind conditions and ensuring the load is under control at all times.

Clients report an improvement of cycle times of up to 30% compared to traditional methods.

Crane operators have commented that they can lift with confidence when beside buildings, as the load will not spin. The ability to stream the high resolution image into the crane cab makes the lifting process safer and more comfortable for the operator, instead of lifting blind. A dedicated camera system is not needed when Roborigger is used.

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GERMANY
Ludwig System GmvH & Co

NETHERLANDS/BELGIUM
Ludwig System GmvH & Co

SPAIN
PAI Equipment + Prosertek

SAUDI ARABIA/QATAR/UAE
Rezayat Sparrow Arabian Crane Hire

USA/CANADA
Greenfield Products

TAIWAN
Kooka Technology

SCAN FOR AGENT LIST

Our Customers

MULTIPLEX, RioTinto, SUMITOMO MITSUI CONSTRUCTION CO.,LTD., MIDGARD, KAJIMA, ALEC, acciona, SMD, WEST GATE TUNNEL, SeaSwift, QUBE, BHP, Fortescue, LINX, McCONNELL DOWELL, SHAWCOR, Built, LTE, CRUDE OIL PIPELINE, Buildcorp, MEYER WERFT, LEIGHTON, Woodside, CPB, LAING O'ROURKE, John Holland, CIMIC, PLP

Customer Testimonials

Alkimos Seawater Desalination Plant

Crane Crew Cost Savings
"....we are able to operate an additional 3 hours per day instead of standing down due to wind: $750 per day saved - Over 23 working days per month = approximately $17,250 per month

Productivity Increase
...It is reasonable to suggest that overall crane productivity improvements could effectively double the value of the direct wind-related savings. ""

Jordan Pollock, Senior project Engineer
Temporary Works Co-Ordinator, Alkimos SeaWater Alliance

LTE PRECAST CONCRETE STRUCTURES (QLD)

"Roborigger has completely changed the way we handle the installations of our CORECUBE precast lift cores. Roborigger now controls the cubes and accurately orientates them for landing at height. Its quicker, safer and far easier than using taglines. We are very happy with the solution and use it on all our projects."

Jason Treasure, Director
LTE Structures - AUS

SeaSwift

"Before Roborigger, Sea Swift needed multple personnel holding taglines to control cargo onto the vessel. Using Roborigger's remote control load orientaton technology has improved safety for our personnel, increased efficiency of the lifing operatons and reduced the impact of wind on heavy cargo. We are very happy with the technology and will contnue using Roborigger."

Matthew Fairley, Maintenance Manager - Seaswift, AUS

MULTIPLEX

"The overwhelming potential safety outcomes are what sparked our interest in Roborigger. The device perfectly aligns with our overarching strategy to be safer by design and focus on critical risks, removing the need for workers to be in the proximity of a high risk activity."

John Flecker, CEO
MULTIPLEX, AUS

JRL MIDGARD

"Since we began using the Roborigger, our facade panel installation has doubled from 10 to 20 units per day, even at excess height of 140m. The ability to remotely control loads has not only improved efficiency but also eliminated the need for workers to be near suspended loads, significantly enhancing on-site safety"

Aiden Smith, Project Manager
Midguard, UK