ROBORIGGER AR15

ROBORIGGER
www.roborigger.com.au

The Roborigger AR15 is a 15t WLL radio-controlled load orientation system.
Roborigger adds value to your project by increasing lifting efficiency of the crane and its team an average of 15% due to the following:

- you can keep control of larger loads in higher wind speeds without them spinning
- there is no need to use tag lines (no personnel to hold them and time saved in attaching / removing)
- loads can be oriented precisely in confined areas without tag lines
- reorientation can be done whilst the load is in transit from lift to set down

Roborigger generally has a payback of greater than three times its cost within 2 years.

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. It is not just the mass.

Each unit comes with the ability to use 2 remote controls. This allows handover of control between 2 dogmen. The team at street level can 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 handover 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 hook side or shared between both. It can be used in conjunction with the Roborigger Offset Lifting System for installation of facades or precast against existing structure. Roborigger remote release hooks can be used to allow rigging to be detached remotely.

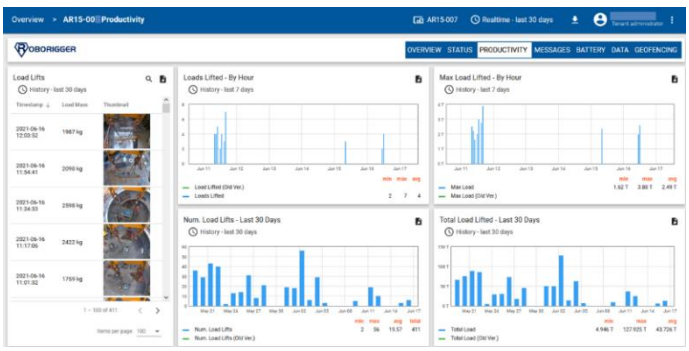
Roborigger includes a video camera with personnel detection and a warning horn. The Roborigger camera feed can be transmitted to the crane cabin and your network. The touch screen provides the ability to sound the horn, activate the floodlight, and allows voice communication to the Roborigger speaker. It also provides remote control capability. Roborigger has a load cell and is internet connected. 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. This can be accessed anywhere with a web browser.



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,still pictures and personnel detection
- 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, 433MHz or 915MHz controller
- 12 hour+ battery pack. Optional 24x7
- Onboard battery charger: input AC110-240V 10A single phase input. 6 hr charge time.
- Remote monitoring using ROBORIGGER IoT website

SPECIFICATIONS:

WLL: 15 t
PROOF LOADING: 30 t
Module Size: 1.35 (diam) x 1.88 (height)
Operating temp: 0 to +55C
Weight: 875 kg
Design : AS4991, AS1418 class U3 loading Q3
Will comply mechanically with all global codes.
Fatigue life 100,000 cycles spectrum Kp=1
Design approval - Lloyds Register. CE approved

ROBORIGGER ACCESSORIES

www.roborigger.com.au

ACCESSORIES AND FEATURES

BIHOOK
The 15t WLL bihook provides great functionality as it can allow 15t to be connected in any configuration. All load can be on one hook or the load can be shared equally. The central hole allows connection of a shackle or the fixed end of a looped sling if the wireless release is used.



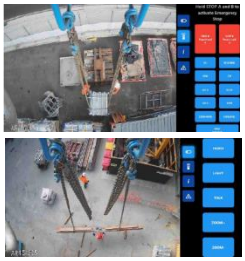
OFFSET LIFTING SYSTEM
The Offset Lifting System operates in a similar manner to a cantilever beam in that it allows the Roborigger to lift loads right against an adjacent structure since the load is carried alongside Roborigger rather than under it.



PERSONNEL IDENTIFICATION
The optional personnel identification camera can cause the horn to sound if personnel are detected in the danger zone under Roborigger. The alarm sound is user configurable.



SMARTSCREEN CRANE CAMERA
The onboard camera can be viewed on the Smartscreen which also allows control of Roborigger, the ability to sound the horn and talk to the riggers via the speaker on Roborigger.



LOUDSPEAKER
The loudspeaker allows warning messages such as low battery to be spoken to the operator. It also allows the crane operator to speak to the rigger.



FOOT PEDAL CONTROLS
The USB foot pedal controls allow the crane operator to control the Roborigger using the Smartscreen. These are typically used to operate the GOTO position command.



OTHER ROBORIGGER PRODUCTS



ARM1500 50T capacity



AF12 Fan type system – for very long and heavy loads



ARMR1500-50 – OFFSHORE Ruggedized model



WRH 85 – 85t wireless release hook

OUR CUSTOMERS

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

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