ARMR1500-50 RUGGED

RUGGED ROBORIGGER
+50t WLL SPREADER

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.

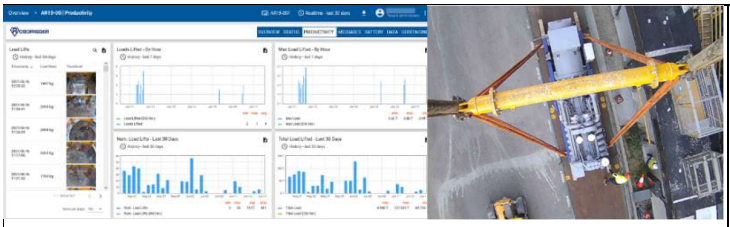
Erection of steelwork at height can be done using one or two fewer personnel as you don't need personnel on tag lines to do the orientation. Roborigger has a typical payback within 6 to 12 months..

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.



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 International Pty Ltd
Perth Australia
Tel: +61 8 9488 4500
www.roborigger.com.au