

The ROBORIGGER AR15 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 of 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 trihook that can carry 15t on the centre hook or 15t shared on the outside hooks.

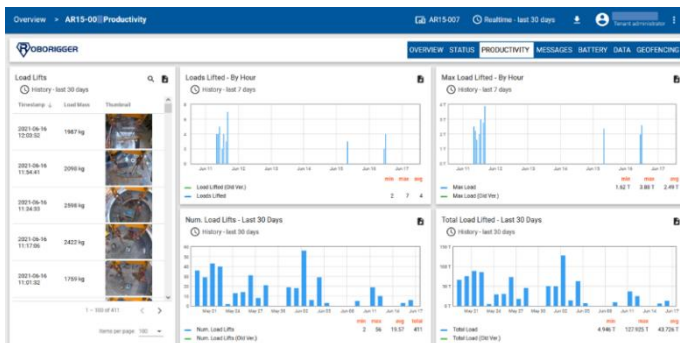
ROBORIGGER includes a video camera and load cell and is fully internet connected by Wi-Fi and 3g/4g so that all lifts are recorded on the internet database complete with date, time, location, weight and a high resolution image. Load ID can also be recorded. This gives the user the ability to track all 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 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:** 1.4 (diam) x 2.03 (height)
- Operating temp:** 0 to +55C
- Weight:** 1,050 kg
- Design :** AS1418 class U3 loading Q3
- Fatigue life 100,000 cycles spectrum Kp=1
- Design approval - Lloyds Register. CE approved