



# RCI Pro

Rated capacity indicator



RCI Pro is a rated capacity indicator that ensures the safe operation of lifting equipment throughout the machine's working envelope. The system continually measures the height, radius and load on the machine, allowing operators to work at the maximum lifting capacity whilst remaining within the machine's safe working load (SWL).

Compliant with both UK and EU standards, the system has been designed to satisfy regulations regarding the use of excavators as cranes and is ideal for both single (mono) and triple articulated machines. Utilising RCI Pro not only manages the risks involved in lifting operations but also enables your fleet to comply with the strict regulations enforced on major infrastructure projects.

The system also includes a ready-made function to control height, meaning that you can safeguard your assets and machines when working in congested environments such as under bridges or under power lines.

## RCI Pro (indication only)

The RCI Pro enables safe lifting operations through the machine's working range. Fitted with an audible alarm as standard (requirement by UK law), the system warns the operator should the machine approach its safe working load or user defined height limit.

## Benefits of RCI Pro

- LOLER Compliance (external certification required)
- Enables your construction equipment to work on sites operated by major infrastructure companies
- Full utilisation of capacity throughout the machines operational range
- Easily upgraded to include slew or machine control functionality
- Calibrate using either tip data or OEM load charts
- Full data logging

## RCI Pro (motion cuts on height/lifting option)

The RCI Pro (with motion cuts) differs in that it provides all the functionality found on RCI Pro (indication only) with the addition of motion cuts (height and/or lifting) which physically restricts the movement of the machine should it approach a user defined height limit or the machine's safe working load (SWL).





### Standard features

- Real time lifting capacity displayed through the machine's range
- True load on hook displayed during lift
- Audible and visual alarm at or near overload/limits
- Full data logging of all actions including alarms, overload and limit warnings
- Multiple lift points available with set-up
- System override for supervisors
- Variable or pre-set height limits can be entered and locked
- User friendly context specific icons display status on screen
- Multiple duties possible (up to 8 without additional hardware) allowing maximisation of lift envelope

### Options

- Hydraulic motion cuts on overload
- Hydraulic motion cuts on height and envelope (control on maximum and minimum radius)
- Full cab protection including complex shapes and movements'
- Multiple tool options to allow variance of load chart with tool
- Telescoping boom inputs
- LOLER (UK) expiry reminders
- Alternative angle and load sensor inputs possible
- Offset boom variants
- Alternative languages

### Standards and Tests

- LOLER compliance (external certification required)
- Complies with H&S requirements on the machinery directive EN2006/42/EC
- Designed to meet EN474; BS7262;EN10567; EN13000:2010; EN13844;EN12077; EN13849; EN60204:2006

- EMC conformity: EN13309:2010; EN50121-3:2006
- Safety controller tested to IP69k
- Display tested to IP65

### Technical specification

- Display daylight viewable (650cd/m2)
- Input voltage 10-32V
- Typical power requirements:  
System off: 2mA; 10V  
system: 1A; 32V system: 500mA (power requirements may vary dependant on hardware configuration)
- Operating temperature range -20°C to 65°C
- Touch button input on display
- CAN communications protocol
- Industry standard M12 connectors
- USB input for data logging and transfer

