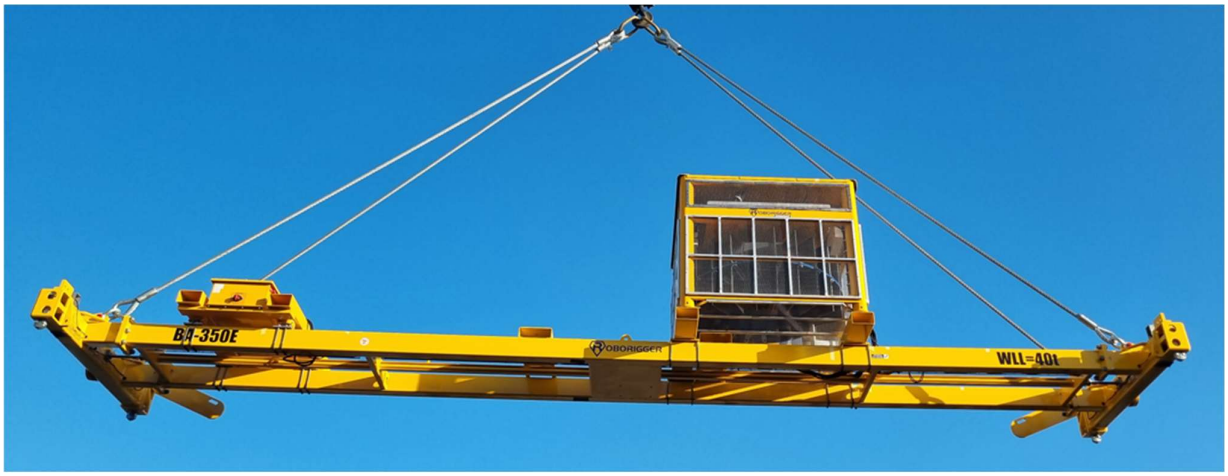
ROBORIGGER ARM2000 - TEC BA350 INTEGRATED SPREADER

THE WORLD'S FIRST FULLY AUTOMATED CONTAINER SPREADER

The ARM2000 TEC-BA350 Integrated Spreader allows container handling operations to be undertaken with greatly improved efficiency and without any personnel near the containers. This spreader incorporates Roborigger remote control orientation, cameras for assisting in orientation, retractable alignment guides, touch screen and foot pedal operation and fully electric twistlock actuation.

The system is the product of cooperation between Tec Container and Roborigger. The spreader controls are integrated into the Roborigger system allowing all components be operated by either the Roborigger remote control or the Roborigger Smartscreen.





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

ROBORIGGER ARM2000 - TEC BA350 INTEGRATED SPREADER

FEATURES

Swappable Battery Skid

The spreader has a swappable battery skid designed to last for a 12 hour shift and approximately 150 40ft container operations. The battery charger will recharge the skid in around 6 hours. The skid can be disconnected using its industry standard twistlocks and swapped in minutes.



Integrated Controls

The Integrated Spreader can be operated by a single remote control. This has the normal Roborigger orientation functions as well as the ability to unlock (Fn+U) and to lock (Fn+L) the twist locks. The status is clearly visible on the spreader via the light panel at each end.





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Alignment Guides

The ARM2000 Integrated Spreader is fitted with fold up alignment guides that will retract if they land on top of a container, avoiding damaging the container. They are able to be pinned in the retracted position when not in use. The normal method of operation is to have X and Y guides on one corner and a single X guide on the long side adjacent corner. The spreader corner is engaged using the X-Y guides first and then brought in until the X guide on the long side is in contact. The spreader can then be lowered and locked. Positioning can be monitored using the cameras.

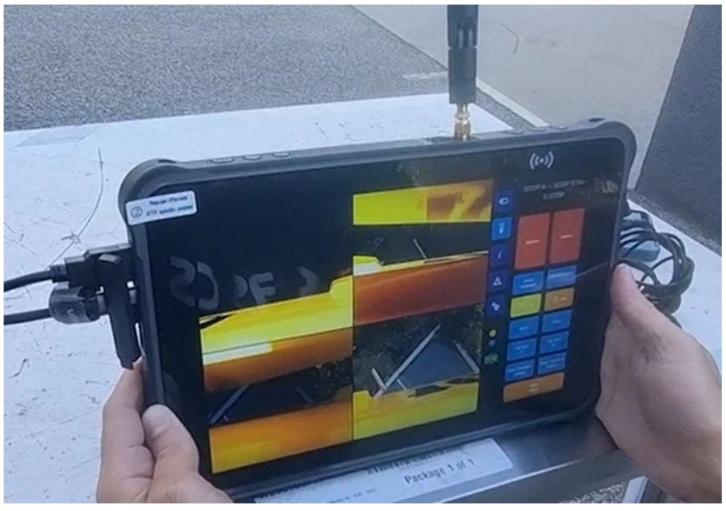


Cameras and Smartscreen

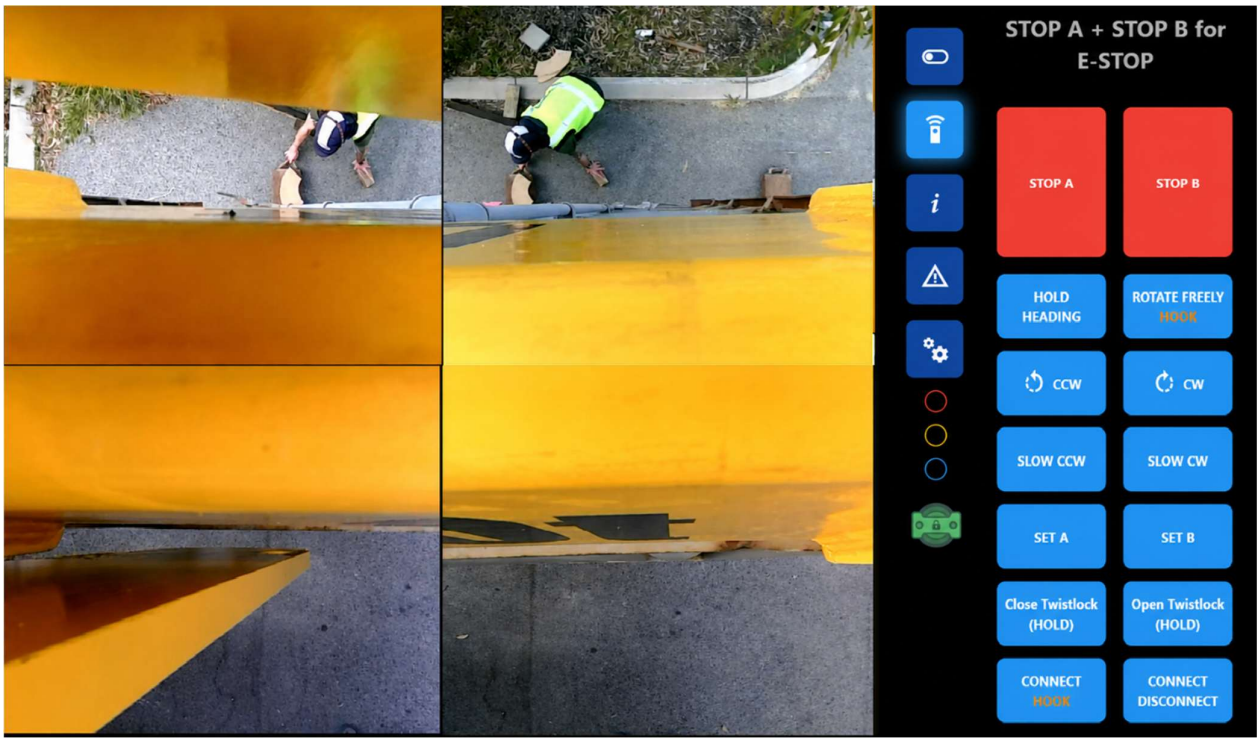
The ARM2000 Integrated spreader is fitted with downward looking cameras on each corner which provide a video feed to the crane operator or to the dogman responsible for positioning the spreader. The cameras are protected by a rugged stainless steel housing.

The Smartscreen has touch screen buttons to rotate the spreader and to lock and unlock the spreader twist locks. The screen provides visual feedback when the twistlocks are all engaged and the container can be lifted. The Smartscreen also has the ability to blow the horn and use the loudspeaker to talk to personnel in the vicinity of the Roborigger.





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Foot Pedal Controls

USB connected foot pedals can also be used to control the rotation. They can be configured using the Smartscreen to work in the GOTO mode where the spreader moves autonomously between two set orientations or in ORIENTATION mode where the pedals initiate rotation clockwise or counterclockwise.



SPECIFICATIONS

Spreader lift capacity	40t
ARM2000 Module size	2100x2100x2100(H)
ARM2000 Module weight	1800kg
Battery module specification	350V DC x 58 kWh
Battery module size and weight	1680 x 1200 x 470(H) 690kg
Total weight spreader plus ARM2000	5300kg

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