ROBORIGGER AF12
FOR CONTAINER SPREADER

SIMPLE UPGRADE TO AUTOMATE YOUR SPREADER

The Roborigger AF12 fan type load orientation system is designed as a retrofit to semi-automatic spreaders. The fan modules provide a significant thrust that allows the spreader orientation to be controlled in strong winds.

This will significantly improve the efficiency of container loading and unloading as well as allowing the operation to de done with no personnel in the vicinity of the load





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FEATURES

Swappable Battery Skid

The system will be supplied with a swappable battery skid designed to last for a 12 hour shift. 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.



Fast Installation

The system can be installed very quickly. The modules attach to brackets connected to the spreader with U bolts. Alignment guides and cameras may require welded brackets to be added.

Alignment Guides

Roborigger can also supply 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 if supplied.



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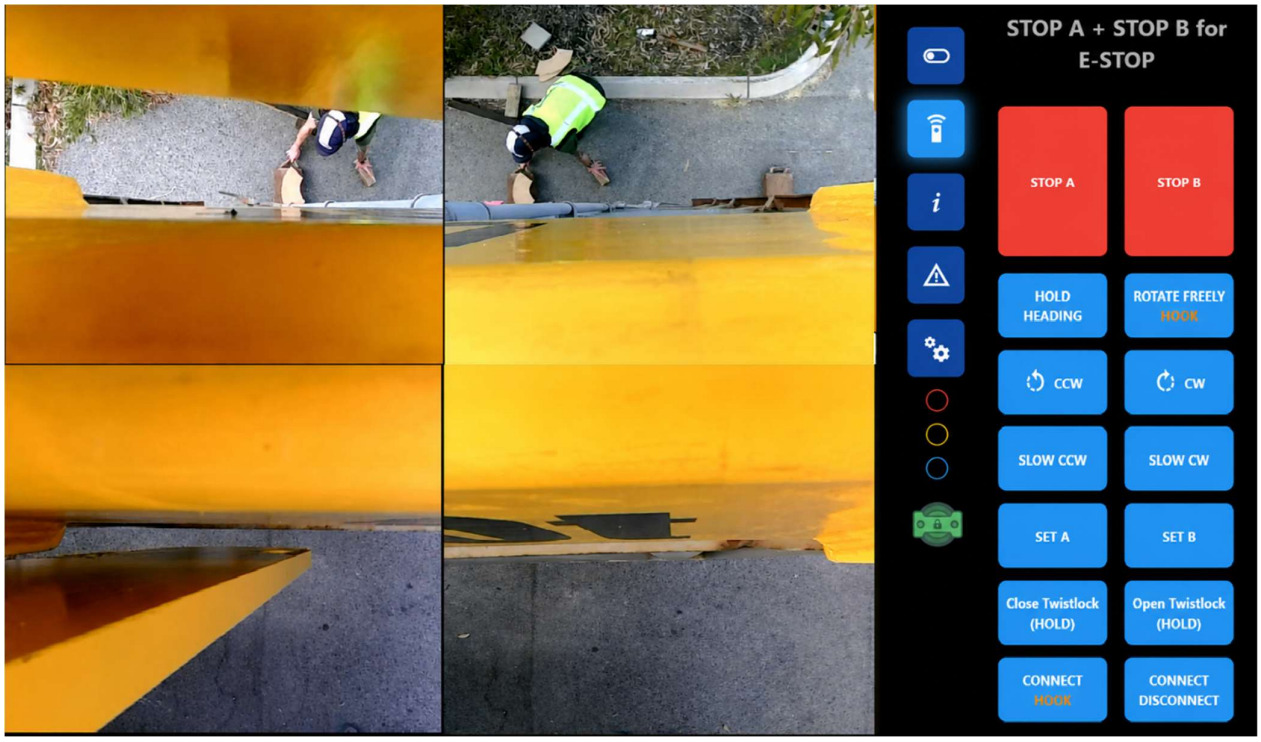
Cameras and Smartscreen

The spreader can be fitted with optional 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.
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 suitability	20ft or 40t
AF12 Module size	1600 (w) x 1100 (D) x 1700 (H)
AF12 Module weight	300kg each 600kg total
Battery module specification	72V DC x 48 kWh
Battery module size and weight	1600 x 1200 w x 470(H) 550kg

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