

Active Rotation Control (ARC)

Pin-point positioning
saves time and money



MACGREGOR

Designed to perform with the sea



Pin-point positioning saves time and money

MacGregor has developed an Active Rotation Control (ARC) system for its range of cranes that stabilises and automatically rotates a load in the air; making load-handling faster, reducing cargo damage and saving energy.

Positioning cargo in port is a difficult and time-consuming job for the crane driver. Limited vision, heavy rain and wind make it even more complicated. A load can start rotating in the air and stopping this motion requires a highly-skilled crane driver. Even for an experienced driver, this operation takes a lot of time and effort. The ARC system overcomes these issues. It has an automatic swivel control

that maintains the cargo's position during the entire operation. When activated, cargo positioning times can be shortened by up to 30 percent. Shorter positioning times and a smooth drive significantly lower energy consumption and increase efficiency. These ensure that the ARC solution pays for itself in a short period of time.

Eliminates hazardous tasks

Port workers often have to attach wires to the load and manually pull it into the correct position. This work can be dangerous and there is a risk that the cargo could bump into surrounding structures, potentially damaging them and the cargo. With the ARC solution, these hazardous and time-consuming tasks can be eliminated as the positioning work is automatic.



Easy to use

It only takes a few minutes to learn how to use the system. There is a separate control box with two controls: one to set the start position and one to set the end position. With joystick control, the cargo's position can be accurately fine-tuned.

Modern technology

Electric motor (with brake)

Frequency-operated for a smooth drive.

Slipping

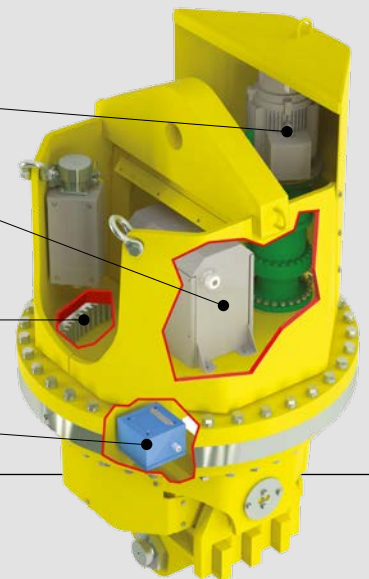
A slipping transmits power between the fixed and moving parts.

Slewing bearing

The slewing bearing is centre-line located and electrically operated.

Gyro

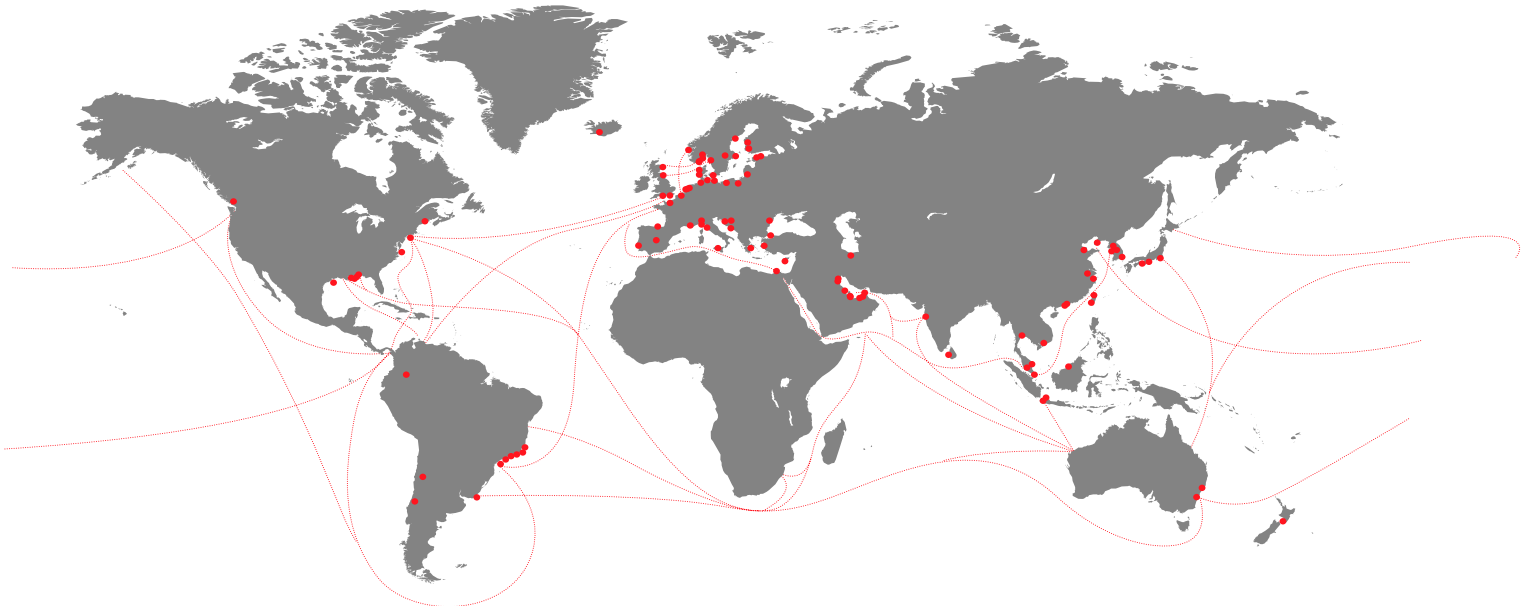
Gyroscopic stabilisation cancels out torsional pendulations and keeps the cargo steady.



Technical data	45t	60t	75t
SWL	45t	60t	75t
Weight	1.34t	1.37t	1.40t
Height	1.31m	1.33m	1.35m
Diameter	1.06m	1.06m	1.06m

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MacGregor solutions and services for handling marine cargoes, vessel operations, offshore loads, crude/LNG transfer and offshore mooring are all *designed to perform with the sea*.

MacGregor is part of Cargotec (Nasdaq Helsinki: CGCBV).

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