



## Intelligent solutions for crane engineering: Spreader adjustments with RACO electric actuators

### Electromechanical drive concepts for efficient container handling

The handling of containers in harbor crane facilities requires control at the highest level of precision. Loads need to be picked up safely, positioned exactly and then gently deposited. At the same time, processes have to run as quickly as possible because time is a crucial economical factor. The automation of processes helps increase efficiency as does reliable and safe actuating technology.

### RACO is your systems provider for crane technology

Electromechanical drives by RACO are ideally suited for many processes concerned with the handling of containers. They are also by far superior to hydraulic solutions, for example when it comes to freedom of maintenance and cost and energy efficiency.

Typical areas of application include:

- Adjustment of the headblock in order to position the crane gear above the container; "side shift actuator" & "micro motion actuator"
- Alignment of the rope nip at the headblock above the spreader; "trim list actuator"
- Driving of the flipper arms that help deposit the spreader on top of the container
- Locking of the trolley and crane gantry as storm safety measure
- Gear change of large cable winches for adjustable hoist speeds

### High positioning and control accuracy

RACO drives complete positioning and control tasks with a high degree of precision. This is also true under extreme weather conditions in regions by the sea, like wind and storm: The electric actuator meet the requirements for corrosion protection and many equipment features that help increase functional reliability and operational safety are optionally available. At the same time, realizing soft starts is easily done through employment of our RACOMATIC® control system.

## RACO electric cylinders with RACOMATIC – synchronization, automation and more

The controlled driving of several electric cylinders at uniform speed, in order to position cables at the headblock for example or in case of superimposed drives of crane cross-beams or gantries, is a typical requirement of the continuous and safe transport procedure. Equipping a RACO electric actuator with the RACOMATIC® includes a frequency converter to control the rotational speed, sensors as well as optional brake technology that allows for soft starts and/or deceleration in generator mode via a ramp function. Our mechatronic actuators offer the programming of movement profiles and the reliable automation of processes.

**RACOMATIC® – a future-oriented drive solution from a single source.**

## Centralized control and remote maintenance

Electric cylinders that have been equipped with the intelligent actuating technology RACOMATIC® can be controlled in a decentralized way; alternatively, they can be adapted to the main crane control by using a BUS interface. An individual, custom-tailored control concept, for driving several actuators synchronously for example, enables the signal exchange with the higher-ranking SPS. It is possible to install the control components in a decentralized or centralized manner and check the operating status remotely.

Electromechanical drive concepts for crane systems by RACO are based on decades of experience – in the area of linear repositioning as well as the cooperation with manufacturers and operators of harbor and crane facilities. Talk to us about your upcoming projects and potential improvements of your systems!

**Would you like to learn more about our products? We would be pleased to advise you**

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