



SIEMENS SIMOCRANE Remote Control Operation System Owner's Manual

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Introduction

With Siemens RCOS, port terminals achieve productivity comparable to conventional cabin-controlled cranes. Safe and constant performance for efficient crane operation.



Siemens Remote Control

Customizable to suit every type of crane

Smart integrated views

Siemens RCOS uses a PROFINET protocol that enables crane control with low latency and therefore a high degree of predictability. The system is supported by strategically positioned cameras that automatically track the movements of the spreader and customer specific processes.

The screens are planned according to human cognitive abilities, so only relevant and easy to understand information is displayed. The smart screens automatically change the view to follow the process as the operator performs a movement which allows the operator's tasks to be carried out without distractions.

Safety and comfort

The system significantly improves the working environment and operator safety. RCOS certified integrated safety solutions guarantee safe operations for people and equipment.

- Camera latency check ensures a minimum time delay between crane movements and screen viewing.
- Frame rate detection ensures the video connection to the crane is reliable.
- Equipment check ensures the desk is connected to the selected crane.

More comfortable seats and a more collaborative work place also contribute to personal health and welfare.

In addition to the daily comfort, there is an improvement of the operator's mobility during their basic tasks. All operations become more flexible and the shift changes become faster. The crane operator role becomes multilayered and flexible.

Any-to-any

Siemens Remote Control is based on the "anyto-any" principle, which enables the operator to logon to any connected crane from any connected desk. This becomes very useful when a crane is equipped with semi-automatic functions that enable the crane to partly operate by itself and calls for the remote operator only when it requires manual operation

Agnostic concept

The Siemens remote control system offers not only the ability to connect to different type of crane but also to connect to different controller types and brands from e.g. different crane suppliers. This gives a Terminal the opportunity to standardize to one remote control platform. Resulting in many advantages like one user interface for all cranes, single system to maintain, any crane can be controller from any desk and the best cybersecurity protection.

The road to automation

Siemens "Pooling" system makes sure the crane is forwarded to a free desk when assistance is needed. Within Pooling it is also possible to redirect difficult or complicated tasks to remote operators that have the required skill set. In the same sense, simple tasks can be done by any operator.

RCOS supports terminals towards a fully automated process. The higher degree of automatic functions on the cranes, the fewer stations are required.



The smart screens automatically change the view to follow the process as the operator performs a movement which allows the operator's tasks to be carried out without distractions

Cranes Motion Control

cranes.i@siemens.com
[siemens.com/cranes](https://www.siemens.com/cranes)

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Documents / Resources



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