



# UPGRADE SCS<sup>3</sup> to SCS<sup>4</sup>

## SPREADER CONTROL SYSTEM

### DESCRIPTION

SCS<sup>4</sup> users are provided clear, detailed messages in their native language guiding them on what to do while troubleshooting or on what to look for while monitoring the spreader.

This accurate diagnostic data is the key to shortening downtime and eliminating the need for time-consuming spreader changeouts.

Operational information, such as events, alarms and trend data, is stored in SCS<sup>4</sup> even after the spreader has been disconnected.

This gives service and maintenance personnel the opportunity to review and analyze data in order to further improve spreader productivity.

The SCS<sup>4</sup> is mounted on the mainframe of the spreader.

### Benefits of having an upgrade from SCS<sup>3</sup> to SCS<sup>4</sup> include:

#### Easy access to external battery and backup memory

All information including control program, parameters, counters are stored in the backup memory to facilitate the unlikely situation where a screen needs to be replaced.

#### Visualization monitor

The visualization monitor shows several operational parameters and data. SCS<sup>4</sup> comes with a new, more powerful monitor that features improved user-friendliness, more advanced diagnostics and spreader prognostics.

#### Online tuning

Operators are allowed to tune spreader parameters online or revert them to factory settings.

#### Display of runtime and spreader data

Provides detailed information such as events, alarms and log data to help maintenance personnel perform more accurate and efficient maintenance.

#### Communications status of field bus interfaces

Advanced communications are at the heart of SCS<sup>4</sup> spreader control. Communications status of field bus interfaces ensures the secure information flow between SCS<sup>4</sup>, spreader and crane.

#### Spreader sensor and valves

All spreader sensors and valves are displayed.



## SCOPE OF WORK

The scope of work in the supply and installation of the SCS<sup>4</sup> upgrade is as listed below:

- Rewrite program in CoDeSys 3.5 for spreaders/group of spreaders
- Revise the existing drawings
- Revise the spreader manuals
- Install mount for SCS<sup>4</sup>
- Install battery
- Install memory
- Install SCS<sup>4</sup> PLC
- Install new cabling
- Install software on SCS<sup>4</sup>
- Test all functions

## PARTS INCLUDED

The following parts are included in the SCS<sup>4</sup> upgrade offer:

- SCS<sup>4</sup> PLC
- SCS<sup>4</sup> battery (mounted in the back of the housing)
- SCS<sup>4</sup> memory (mounted in the back of the housing)
- SCS<sup>4</sup> power cable (different from SCS<sup>3</sup>)
- SCS<sup>4</sup> PLC (different from SCS<sup>3</sup>)
- Converted and updated spreader program

## ADDITIONAL ITEMS INCLUDED IN WORK SCOPE

The following additional items are included in the SCS<sup>4</sup> upgrade:

- Software update on port's computer that will be used to connect to the spreader
- SCS<sup>4</sup> training

## MATERIAL & INSTALLATION LEADTIME

Please contact your local Bromma representative for material and installation leadtime.

## PRICE & DELIVERY

Please connect with your local Bromma representative for price and delivery leadtime.