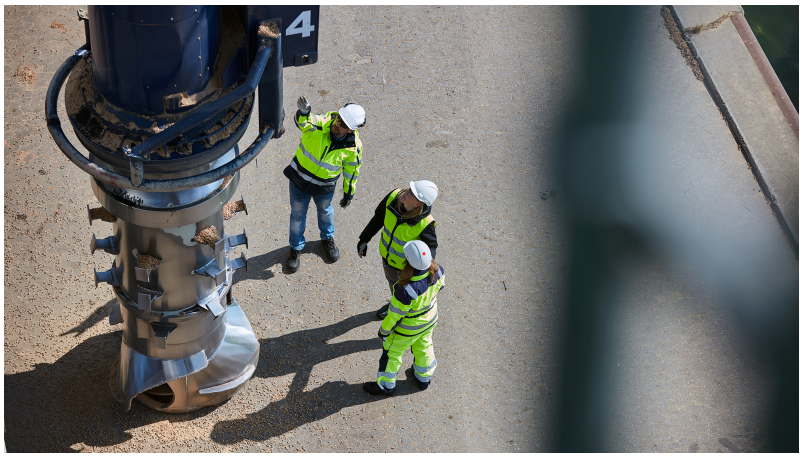


**SCAN THE QR-CODE:**
And view the Page online, where you will have access to more information

# WHEN CHANGE IS NEEDED

**If you are looking to upgrade, modernize or convert your bulk handling systems to meet your changing operational needs, then our experts are here to help.**

Sometimes a system that suited an operation perfectly when it was delivered needs to be modified. We startby discovering exactly what an operator needs now, followed up by detailed upgrade suggestions. As the original manufacturer, Bruk Siwertell's upgrades, modernizations and conversions yield outstanding results. We will calculate the most cost-effective alternatives and ensure that the changes will achieve your goal.

We can undertake everything from screw changes, PLC-upgrades and the installation of new radio systems to complex turn-key contracts.

Please contact Björn Ohlsson, After Sales Manager for more information.

## READ MORE ABOUT SOME CASES

You can also find service - case storieshere.

Upgraded 40 years young Siwetell ship unloader

Upgraded ship unloader meets new demands

Refurbishment delivers far-reaching benefits

Upgraded after 30,000 hours of operation

## SIWERTELL CCTV

The Siwertell CCTV system is designed to give the operator in the operators cabin the best possible overview over the unloading area as well as the vessels cargo hatch and the quay surroundings.

Read / download information about the system


## NEW PLC UNIT AND RADIO REMOTE CONTROL SYSTEM

The new PLC unit and radio remote control system have been specifically developed for its mobile unloader range, improving efficiency and incorporating a high-performance, cost-efficient remote monitoring system.

Read / download information about PLC unit and radio remote control system

## ANTI-COLLISION SYSTEM (BASIC)

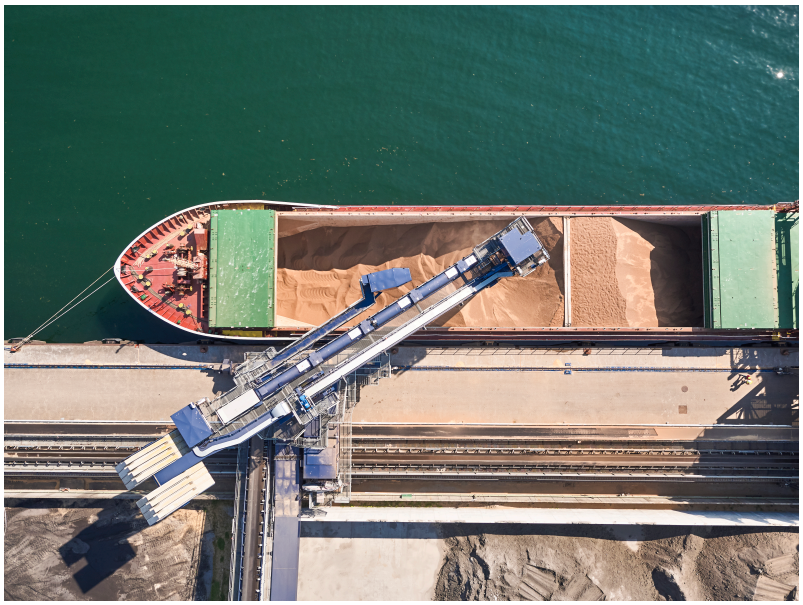
This system is recommended when more than one Siwertell (or any other travelling crane) is installed on the same rail. When the two machines are approximately six metres from each other, or there are other obstacles within the detecting range, the travelling motion is blocked so that the unloader cannot travel towards the other object, only away from it.

Read / download information about Anti-collision system

## MANOEUVRING OPTIMISATION SYSTEM (MOS)

Siwertell units have a fixed pendulum range for the vertical arm, and preset speeds for luffing, pendulum and travelling. The Manoeuvring Optimisation System (MOS) will improve the operation and lifte time of those machines. The system is designed to help the operator run the ship unloader with a high continuous capacity, without applying unnecessarily high digging forces.

Read / download information about the manoeuvring optimisation system



## CLEAN-UP UNIT

The clean-up unit for Siwertell unloaders can be used during the clean-up phase when unloading free-flowing materials such as cement or granulates. It is shaped like a spiral which, while rotating, collects and pushes the material inwards towards the inlet device and the vertical conveyor in the centre.

read / download information about the clean-up unit

## SERVICE TOWER TO SHIP UNLOADERS

Bruks Siwertell hasaservice product that promises to substantially simplify and lower the cost of fitting replacement screws on its market-leading Siwertell ship unloaders.

read / download information about the service tower

## OPERATOR´S CABIN

The opertor's cabin for both Siwertell continuous screw-type ship unloaders and forSiwertell ship loaders of screw, belt and aeroslide design, is mounted on an arm atthe same level as the horizontal arm of the unloader/loader, the operator's cabinslews along with the horizontal arm.

read / download information about the operator's cabin.

## TRANSFER TROLLEY

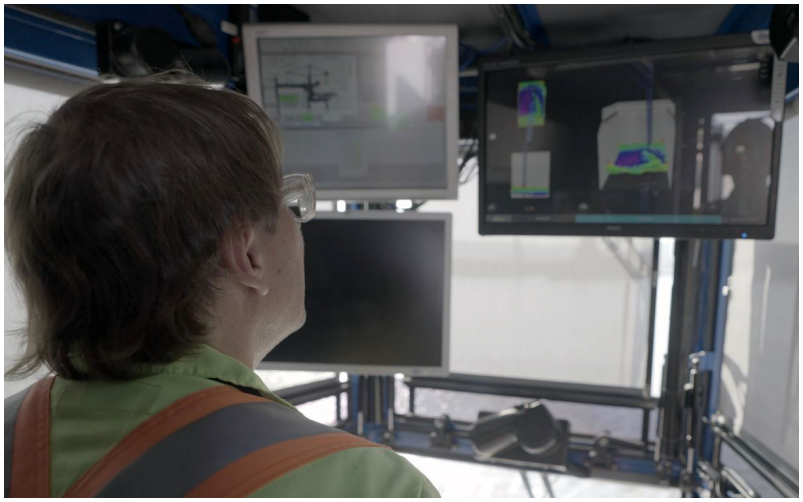
A typical Siwertell continuous screw-type ship unloader travels on rails along thequay. The unloaded material must often be transferred from the traveling unloaderto a fixed conveyor on shore. The Movable transfer trolley makes it possible toperform this material transfer without dust and spillage.

read / download information about the transfer trolley.

## RADIO REMOTE CONTROL BOX

The portable radio remote control box has the advantage as described alarms indetail on a display. Siwertell ship unloaders and loaders can be operated from aportable radio remote control box, which weighs only 2.2 kgs.

read / download information about the radio remote control box.



## DIGITAL HATCH VISUALIZATION

Hatch visualizations are dependent on the use of radar. Radar offers some distinct advantages in dry bulk handling operations. Even in challenging environmental conditions such as dust, fog, and snow, radar is able to provide a very effective mechanism for digital image generation.

read / download information about the digital hatch visualization

## SEMI-AUTOMATIC SHIP UNLOADING

In semi-automatic unloading mode, for example, the unloader's counter-rotating inlet feeder is precisely positioned, maintaining best practice in terms of submersion level beneath the cargo surface. It also defines the optimal path for the vertical arm while minimizing overall movement.

read / download information about semi-automatic ship unloading


## ANTI-COLLISION SYSTEMS

Bruks Siwertell offers anti-collision systems for its range of dry bulk handling equipment. The use of the systems means that even in challenging environmental conditions such as dust, fog, and snow, digital image generation is still possible.

read / download information about radar-based anti-collision systems