Key Customer Benefits

- Discharging of containers can immediately upon arrival of the vessel without the need to manually unlock twistlocks
  - Faster turn-around
  - Labour cost

- Offers smart system safety with positive confirmation of locked or unlocked state.
  - Safe handling
  - Containers fastened securely on deck

- Vertical tandem lift capability
  - Remote control improves efficiency for vertical tandem lifts
  - Safe operation since
    - locked state confirmed prior to lift
    - automatic certification

- Offers a mode to convey information from point of loading to discharge with remote read/write capability.

Want to know more about
Remote Automatic Twistlocks
and the savings
and benefits they offer?

Please contact
Loxystem Sales Team.

LOXYSTEM
CONTAINER SECURITY DEVELOPMENT

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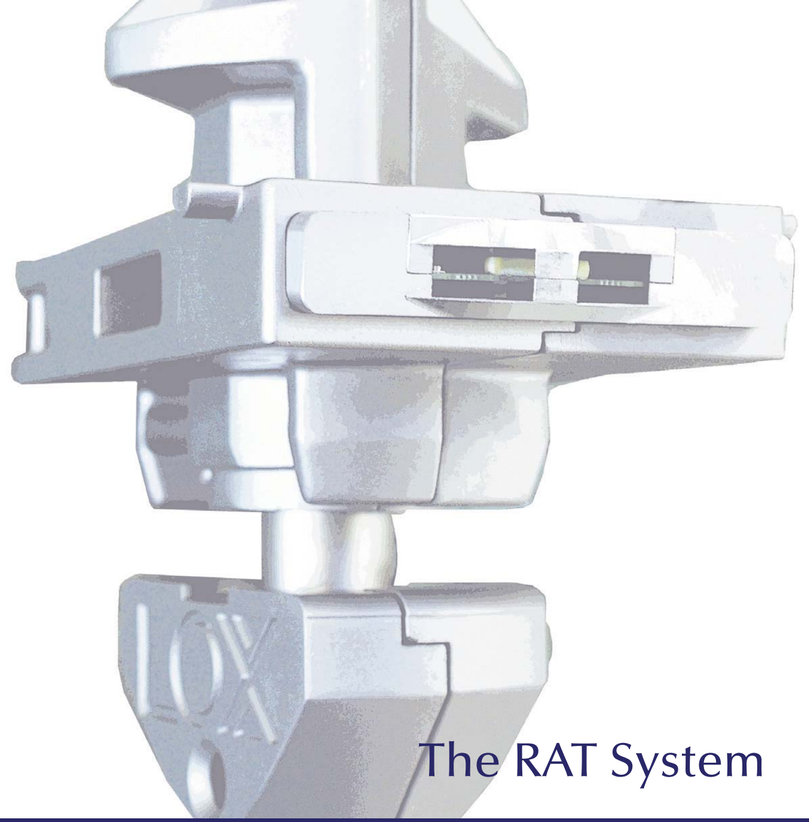
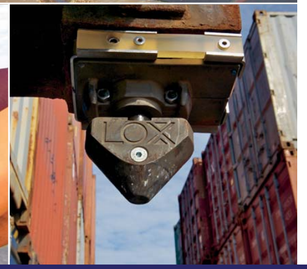
Produktion Effect Marknadsföring Trycksaksgrafiska



The RAT System



Loxystem introduces a new concept that increases productivity and improve safety of container handling in port: The RAT System - Remote Automatic Twistlocks.

Controlled by remote and with built in system safety, containers can now be dispatched efficiently and safe. Each container move is preceded by the system already being checked for the status of twistlocks.

- Unlocking of twistlocks by remote control
- Containers safely secured on deck with twistlocks confirmed in a locked position
- More container moves per hour possible - means faster vessel turn-around
- Improved safety for workers
- Vertical tandem lifts capability offers safe lifting with built in system check
- The twistlocks can convey information: Container ID, port of destination etc. from port to port with remote read/write.

Container Terminal Automation
Remote Automatic Twistlocks improve personal safety in automated terminals and rise the overall efficiency, paving the way for unmanned STS cranes

TECHNICAL FEATURES

RATs (Remote Automatic Twistlocks)

- Radio Accessed
- Acuator driven locking pin
- Sensor confirming locked state
- Stores and communicates data
- Controlled from crane or handheld unit
- Strong and reliable

Minimum tension BL. 50 ton
Minimum shear BL. 40 ton

CCU (Crane Control Unit)

- Placed in Crane Cabin
- Lock/Unlock operation safe and automatic
- Rugged flash type PC
- Integration with crane PLC optional
- Identification and communication with RATs via antennas on spreader

PCU (Portable Control Unit)

- Used in ports without CCU equipped cranes
- Easy loading/unloading with multiple lock/unlock command
- Used for diagnostics, cargo search and verification
- 2,4GHz radio – open band frequency
- Easy symbol based operation
- Rugged hand held computer – IP 67
- Long battery life