

# Container Crane

## ➤ Container weighing



### ➤ Requirements

- Container weighing
- Communication to crane control or TOS (Terminal Operations System)
- Various load sensing methods
- Rough working environments
- Single lift support
- Simple adaption on existing cranes

### ➤ Solution

- Weight measurement and monitoring for ISO-container
- Measurement of total and balanced weight
- Weighing application within an accuracy of < 1%
- Versatile connection to the TOS (CANopen/ Ethernet) others on request
- Customized data transmission
- Load measurement with 4 to 8 sensors
- Utilization of existing measuring points

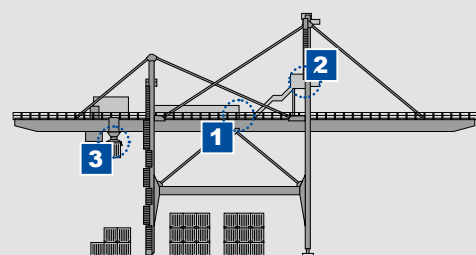
### ➤ Hardware

#### 1 vSCALE: userfriendly HMI

- Visualization of actual container details and statistics
- Service: calibration and sensor settings, no laptop required

#### 2 cSCALE: controller for harsh environments

- Flexible mounting options, e.g. head block or cabine
- IP20/IP66 protection rating
- Integrated datalogger
- Interfaces: CANopen/ Ethernet



### 3 fSENS force sensors: precise and safe

- Customized adaption
- TÜV certified force measurement
- Life-cycle of sensor > 5 years
- Weighing application can be realized with various sensor types:
  - fSENS KMD load cell
  - fSENS MA load pin
  - fSENS RDKA compression load cell



• fSENS MA



• fSENS KMD



• fSENS RDKA

## ➤ Software

The customized software solution can be connected with the existing crane control and operating system

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#### We make lifting loads safer!

As an experienced specialist, we have spent many years providing reliable safety solutions for lifting loads, setting innovative standards in the process and ensuring dependable communication between machines and their operators, particularly in harsh environments.

By developing application software, mobile controllers and robust sensors, we ensure that our customers benefit

from maximum safety and equipment uptime.

We are system integrators, supporting our customers through all project phases: from analysis and concept evaluation, through system design and project planning to prototype testing and field launches. Our safety experts support certification processes and are available for seamless life cycle management.