

# Gantry Crane

## ➤ Certified overload protection



### ➤ Requirements

- Safety cut-off in overload situations
- Lift protection
- Slack rope detection
- Unbalanced and single load detection
- Various load sensing methods
- Rough working environments
- Crane capacities ranging from 3 to 500 tonnes
- Compliance with EN 15011 / EN 13849 / EN 62061 (PL d / SIL 2)

### ➤ Solutions

- Flexible standard overload protection systems
- Communication with crane controller
- Safety chain calculation
- Optimized crane uptime
- Reduced downtimes
- Load monitoring with alarm indication/advance warning
- Standard solutions with 1, 2, 4 or 8 sensors
- Support for redundant sensors
- Datalogger
- Service user interface

### ➤ Hardware

#### Cranes equipped with WIKAL Mobile Control iSCALE Control System:

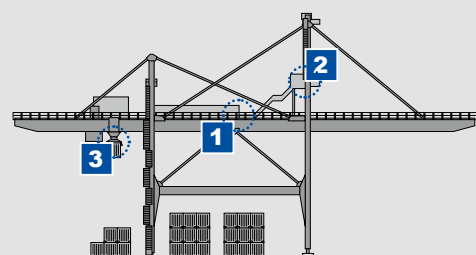
##### 1 Optimal visualisation with vSCALE D2:

- User-friendly HMI console with function keys and rotary encoder for display, operation, and diagnostics (e.g. error codes, load counter/load spectrum recorder)
- Horizontal or vertical mounting
- Temperature range: -30°C to +70°C
- Robust and long service life



##### 2 cSCALE S6: reliable control in harsh environmental conditions

- IP20
- Expandable I/Os
- Integrated data logger
- 32-bit CPU with 48 MB flash memory
- Mid-range or high-end control
- Wire cabin mounted





### 3 Precise force measurement with fSENS sensors

- Enabled by fSENS RDKA or fSENS KMD Compression Load Cell or fSENS MA Load Pin
- Adapted to specific individual requirements
- TÜV certified



#### ➤ Software

- Safety cut-off in overload situations
- Special functions
- Configurable snag load protection
- Detection and monitoring system for cut-off in case of an unbalanced load in a container
- Slack rope detection

#### ➤ Datalogger

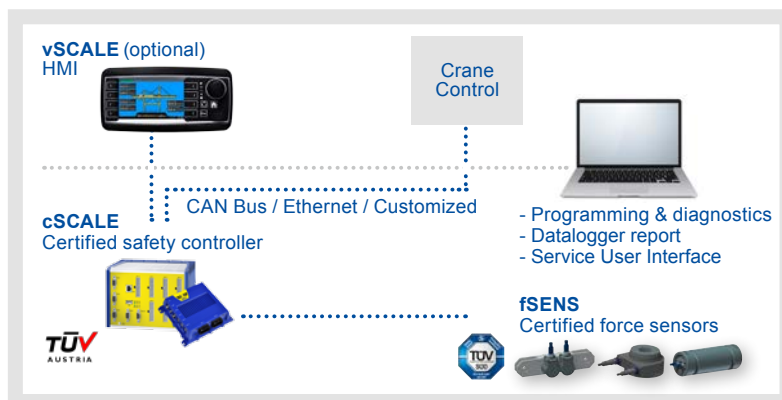
- Load counter (lift data counter according to standard)
- Load spectrum recorder (cumulative load counter according to standard)
- Easy data capture via USB, presentation and analysis in Excel
- Dynamic maintenance intervals

#### ➤ Features

- Standard Ethernet CANopen / PROFIBUS interface for external control by visualizing data transmitted to other control systems
- Parametrization/calibration/diagnosis by web visualization

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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.