



# CONTAINER WEIGHING

FAST, ACCURATE & COMPLIANT WEIGHING SOLUTION

# FAST, ACCURATE & COMPLIANT CONTAINER WEIGHING



- ✓ Fast container weighing
- ✓ Reliable and accurate weighing
- ✓ Compliant weighing

TEKFA specializes in complete weighing solutions. We customize and develop according to customer's needs, focusing on their existing equipment and operations.

## ADVANTAGES OF THE TEKFA CONTAINER WEIGHING SYSTEM

### High reliability and weighing accuracy

- Load cell tested accuracy of 99%
- Complies with SOLAS-convention/Verified Gross Mass
- Ensures legal VGM-invoicing
- Accepted weighing system subject to OIML

### Gravity point indication

- TWM indicates the gravity point between the four container corners

### Machine integration

- TWM uses the machine control system to halt the machine and ensure stable weighing process
- TWM reads and reacts on the twistlock and
- TWM reads and reacts on OOG indication signals

### Weighing process

- Weighing time: 3-5 sec.
- No operator interaction required
- "Live" reporting to TOS or ERP (Optional)

### Overload protection

- Clear TWM overload indication
- Software activates machine brakes on overload (Optional)

### TEST OF WEIGHING MODULES



Each of the different modules types are tested to >100 ton on certified equipment.



## SOFTWARE Add-ons

- 4G or WiFi export to TOS or ERP system
- System logging and reporting
- Overload machine interaction
- Diagnostics of load cell integrity
- TWM "Live" and history mapping of the machine using GPS - coordinates
- Digital input module
- Installation supervision and support
- Special machine reporting or interaction can be done on customer requests

### SOLAS Compliance

SOLAS stipulates that each country itself must decide what acceptable weighing is.

The entire world with a few exceptions, comply to the **OIML-standard**. (Organisation Internationale de Métrologie Légale)

This is the only standard being used in the EU.



## KEY FEATURES

- Machine integrated weighing solution
- "Live" reporting to TOS or ERP
- Reduce carbon emissions
- No weighbridge or similar
- Free-up port area space
- Save handling time



# SPECIFICATION

## TEKFA VGM Container weighing system

### SCOPE OF WORK

#### Weighing system implementation on container cranes and carriers

##### Spreader hardware

- Dismount existing suspension links
- Mount new weighing module links
- Mount the weighing amplifier (WA) connection box on spreader base
- Connect the weighing modules to WA connection box
- Connect a 24V power supply and signals from spreader electrical cabinet to WA connection box
- Connect the WA connection box to the signal converter in the cabin electrical cabinet

##### Cabin hardware

- Mount the TWM in the cabin
- Mount the signal converter in cabin electrical cabinet
- Connect the cabin machine control unit and signal converter to the TWM
- Connect a 24V power supply from the cabin electrical cabinet to the TWM

##### Parts software

- Setup and allow WiFi or 4G connection from the TWM
- Prepare port server TOS or ERP system to receive data from the TWM (Optional.)

##### Weighing states



Unstable



Failed



Weighing



Weighing Completed



Tekfa weighing monitor (TWM)

##### Parts included

- 7" Touch weighing monitor
- Weighing modules (Type and amount are machine dependant)
- Weighing amplifier connection box
- RS-485 to USB signal converter

##### Optional items

- Weighing monitor mount
- Digital input module
- Waybill cabin printer

## SPECIALISTS IN WEIGHING

Tekfa A/S has designed, build, delivered and serviced weighing systems since 1975. Tekfa A/S is family owned company and located in Denmark.

Tekfa has delivered and serviced weighing systems for container weighing since 2016. Today the solutions are tried and tested.



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# Customized container crane weighing solution

FAST ✓ ACCURATE ✓ COMPLIANT ✓