



Konecranes Lifttrucks AB



OIML Member State: Sweden

OIML Certificate No: R51/2006-B-SE1-19.01 Issue 1

Applicant

Name: Address:

Name:

Address:

Issuing authority

RISE Research Institutes of Sweden AB Box 857, SE-501 15 Borås, Sweden

Box 103, SE-285 23 Markaryd, SWEDEN

Person responsible: Lennart Aronsson Manufacturer of the certified type is the applicant.

Identification of the certified type

A graduated, self-indicating, electronic, single-interval automatic catchweighing instrument.

The certified typeCGMV (Container Gross Mass Verification)Accuracy classY(b)Number of verification scale intervals $n \le 200$ (Identification continued on next page.)

This certificate attests the conformity of the above-mentioned type (represented by the samples identified in the associated report) with the requirements of the following Recommendation(s) of the International Organization of Legal Metrology (OIML): R51, edition 2006.

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation(s).

This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated test 6P09600-1, 6P09600-1–5.

Lennart Aronsson

Bengt Gutfelt

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Identification of the certified pattern

General description

CMGV is a single interval automatic catchweighing instrument. It is designed for weighing of containers.

Measuring system description

The CMGV is designed to weigh containers statically during a regular lift cycle with top pick spreader.

The system is based upon pressure sensors in the lifting cylinders, boom angle sensor and a proximity switch to identify the correct position of the boom when retracted. As soon as the container is picked up and the boom is retracted the user can ask for the legal weighting pressing a dedicated button on the HMI. The system is capable to evaluate the machine conditions and retrieve the container weight. When a weighing of a container should be performed the operator first must fulfil the points below to make the weighing button appear on the display.

- Lift the container above ground.
- Retract the boom completely.
- The machine must be standing on lever ground (inclination less than six percentages).
- The machine must be standing still.
- The weight of the container must be within the min and max of the weigh, see plate.



Figure 1: Preview in display MD4 before weight indication

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After pressing it takes a couple of seconds before the weigh value appears in a popup



This is the certified legal value of the weight, no consideration taken to Tare- or Add- function.

Figure 2: View in display MD4 with weight indication





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Essential characteristics

Semi-automatic zero-setting	3		
Technical data			
Patterns	CMGV		
Temperature range	-25 °C (-10	for MC3) to +55 °C	
Max capacity	e*100 ≤ Max ≤ e*200 ton		
Min capacity	Min≥10 e (2t)		
Scale interval	e≥0,2 t		
Number of verification scale intervals	$100 \le n \le 100$	200	
Power supply	24 V DC		
Electromagnetic class	E3		

Indicating unit

Туре	Description
MC3/	MC3 with built in A/D converters for sensors
MD4	MD4 is the display unit

Measurand sensor

Туре	6043.177	6043.135	6043.165
Measuring range	0-400 bar	0-90 degrees	+-15 degrees
N _{max}	200	200	200

Software

Interfaces

The instrument may be equipped with the following protective interfaces: CAN (J1939 busses).

Certificate history

Issue	Dated	Description
1	2019-06-20	First issue

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