



Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R51/2006-GB1-08.01  
Revision 3

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**  
Address: **Stanton Avenue**  
**Teddington**  
**Middlesex**  
**TW11 0JZ**  
**United Kingdom**

Person responsible: **Paul Dixon**  
**Product Certification Manager**

Applicant

Name: **Loma Systems Group and ITW Group**  
Address: **Southwood**  
**Farnborough**  
**Hampshire**  
**GU14 0NY**  
**United Kingdom**

Manufacturer of the certified pattern is the Applicant.

Identification of the certified pattern:

**CW<sup>3</sup> Checkweigher**  
**Further characteristics see page 2**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

<b>OIML:</b>	<b>R51</b>
<b>Edition:</b>	<b>2006 (E)</b>
<b>Accuracy class:</b>	<b>XIII(1)</b>

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.

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

The conformity was established by tests described in the associated:

Test report: TR 532 having 40 pages  
 Test report: TR 537 having 39 pages  
 Test report: TR 585 having 34 pages  
 Pattern evaluation checklist: G20156 having 11 pages  
 Pattern evaluation checklist: P00223 having 12 pages

This revision replaces previous versions of the certificate.

The issuing authority

The CIML member




Mr P R Dixon

Mr P Mason

Date: 07 October 2010

Ref: T1108/0054

Characteristics: Mains-powered automatic checkweighing instrument designated the CW<sup>3</sup>.

Maximum capacity:	$1500 \text{ g} \leq \text{Max} \leq 6000 \text{ g}$
Minimum capacity (Min):	$\geq 50 \text{ g}$
Scale interval:	$e \geq 1 \text{ g}$
Maximum number of scale intervals:	$n \leq 6000$
Tare:	$T \leq -10\% \text{ Max} / 300\text{g}$
Load cell $E_{\text{max}}$	10 or 20 kg
Climatic environment	0°C to +40 °C
	Non-condensing (closed)
Electromagnetic environments	E1 and E2
Power supply	100 - 240 V a.c. 50 Hz
Accuracy class	XIII(1)

Maximum belt speed:

Load	Lightweight variant	Mid-Range variant
50 g to 200 g	80 m/min	50 m/min
201 g to 1500 g	100 m/min	100 m/min
1501 g to 2000 g	-	100 m/min
2001 g to 6000 g	-	70 m/min

Load cell:

The load cell is a Vishay Tedeo Huntleigh 240 C3, capacity 10 kg (Lightweight variant, maximum capacity 1500g) or 20 kg (Mid-Range variant, maximum capacity 6000g). The PC console provides the 10VDC excitation voltage.

Devices:

- Automatic zero setting device active during automatic operation (active if the time between two packs is more than 500 ms)
- Pre-set tare device (subtractive)
- Static calibration not accessible to the user
- Dynamic calibration accessible to the user
- Belt speed setting accessible to the user
- Internal memory for storage of batch reports
- Device to determine the stability of equilibrium, active during dynamic operation
- Device that acts upon significant faults
- Screen check at power-up

Interfaces:

- RS 232
- USB
- Ethernet

The instrument may be connected to either the Loma OPC or LomaEnet systems for the collection of batch reports.

The load transport system may consist of conveyor belts driven by rollers or by sets of chains (designated as “Drag Link”).

Alternatives:

Having the “Heavy Range” variant, similar in construction to the Lightweight and Mid-Range variants, with technical characteristics as follows:

Maximum capacity (Max):	12 kg
Minimum capacity (Min):	500 g
Scale interval (e =):	2 g
Tare:	$T \leq -1.2 \text{ kg}$
Load cell model	Tedeo Huntleigh 240 C3
Load cell $E_{\max}$	30 kg
Climatic environment	0°C to +40 °C
	Non-condensing (closed)
Electromagnetic environments	E1 and E2
Power supply	100 - 240 Va.c. 50 Hz
Accuracy class	XIII(1)
Speed range	As per Mid-Range variant

Having the multi-interval “Super Heavy Range” variant, technical characteristics as follows:

Maximum capacity (Max):	10/20/50 kg
Minimum capacity (Min):	3 kg
Scale interval (e =):	5/10/20 g
Tare:	$T \leq -5$ kg
Load cell model	Tedea Huntleigh 1265 C3
Load cell $E_{max}$	100 kg
Climatic environment	0°C to +40 °C
	Non-condensing (closed)
Electromagnetic environments	E1 and E2
Power supply	100 - 240 V.a.c. 50 Hz
Accuracy class	XIII(1)
Operating speed	50 m/min

Important note: Apart from the mention of the certificate's reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.