



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

OIML Certificate No  
R51/2006-GB1-09.03  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory  
(Part of the National Measurement Office)**  
Address: **Stanton Avenue  
Teddington  
Middlesex  
TW11 0JZ  
United Kingdom**

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

Applicant

Name: **Marel Limited**  
Address: **Wyncolls Road  
Severalls Industrial Park  
Colchester  
CO4 9HW  
United Kingdom**

Manufacturer of the certified pattern is the Applicant.

Identification of the certified pattern:

**9000 Series Checkweigher / Weight or Weight-Price labeller  
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) and Y(a)</b>

This revision replaces earlier versions of this certificate.

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 546 having 40 pages  
SN 596 having 16 pages  
Pattern evaluation checklist: G20172 having 11 pages

The issuing authority



Mr P R Dixon

The CIML member



Mr P Mason

Date: 22 February 2011

Ref: T1108/0044

Characteristics: Mains-powered automatic checkweighing/catchweighing instrument designated the 9000 Series.

Range	All
Minimum capacity (Min)	20e
Tare (T)	-450 e (single interval) -450 e <sub>1</sub> (multi interval)
Climatic environment	0°C to +35 °C
	Non-condensing (closed)
EM environments	E1 and E2
Load cell excitation voltage	14 Vdc
Power supply	230 Vac 50/60 Hz
Display/keyboard location	Control and display unit
Accuracy classes	Y(a) and XIII(1)

Maximum operating speed:

Single interval: 0-1500e: 0.8 m/s 1501e-Max: 0.6 m/s  
Multi-interval: 0-1500e<sub>2</sub>: 0.8 m/s 1501e<sub>2</sub>-Max: 0.6 m/s

Load cell:

Entry / Mid-range:

Maximum capacity (Max)	1500 / 3000 g	1500 / 4600 g	3000 g	4600 g	5500 g
Verification scale interval (e)	1/2 g	1/2 g	2 g	2 g	2 g
Load cell type	Tedeo Huntleigh 1040 C3				
E <sub>max</sub>	10 or 15 kg				

Top range:

Maximum capacity (Max)	1500 g	1500 g
Verification scale interval (e)	1 g	2 g
Load cell type	Tedeo Huntleigh 1040 C3	
E <sub>max</sub>	10 or 15 kg	

Heavy range:

Maximum capacity (Max)	10/20 kg	5/10/40 kg	10/40 kg	27.5 kg	40 kg
Verification scale interval (e)	5/10 g	5/10/20 g	10/20 g	10 g	20 g
Load cell type	Tedeo Huntleigh 1260 C3				
E <sub>max</sub>	50 or 75 kg				

Any compatible load cell(s) may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- It is not a load cell with digital output
- The characteristics of the replacement load cell such as nlc, Y, Z are the same or better than the load cell tested dynamically (Tedeo 1040 C3, capacity 15 kg)
- The design of the load cells and the material are the same
- No oil damper is used

Interfaces:

- RS232/RS485/RS422
- Ethernet
- Digital I/O

Devices:

- Automatic zero setting device active during automatic operation (at least every 3 h)
- Semi-automatic zero-setting ( $\leq 4\%$  max, testing mode only)
- Initial zero-setting ( $\leq 20\%$  max)
- Pre-set tare device (subtractive)
- Static calibration, not accessible to the user
- Belt speed setting, accessible to the user
- Internal memory for storage of batch data (category X)
- Device acting upon significant faults
- Screen check at power-up
- Label editing (restricted to access levels higher than operator)
- Conformat editing (restricted to access levels higher than operator)
- High resolution mode (0.1e) for testing purposes, not accessible to the user
- Operation under Category Y only or X and Y selection device, accessible to the user (restricted to access levels higher than operator, see note below)

Construction:

- Main frame work consisting of a stainless steel re-enforced electrical cabinet that houses the control and display unit, electrical controls and adjustable screw feet for machine levelling
- Level-indicator on top of the weigh head conveyor
- Modular conveyor section fastened to the top of the electrical cabinet, and comprising in-feed, weigh head, and out-feed conveyors (driven by DC motors)
- Pole-mounted control and display unit, situated behind the conveyors, housing the conveyor based electrical hardware and display. Alternatively, the control and display unit may be included in a remote pod connected to the electrical cabinet by a conduit
- 15" TFT LCD touch-screen (control and display unit)
- Machine covers are stainless steel throughout with a perspex cover provided over the weighing area
- Selection of photocells mounted along the centreline of the conveyors for pack detection

ISSUE NO.	DATE	DESCRIPTION
R51/2006-GB1-09.03	01 May 2009	OIML certificate first issued.
R51/2006-GB1-09.03 Rev 1	22 February 2011	Applicant's name changed from AEW Delford Systems to Marel Limited. Construction section added.

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