



OIML Member State

The Netherlands



Number R60/2017-A-NL1-19.29

Project number 2422123

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OIML Certificate

NMi Certin B.V. Issuing authority

Person responsible: F. van Booma – de Smit

Applicant and Ningbo Hechang Electric Co.,LTD Manufacturer

No.66 Yongmao West Road

Ningbo China

Identification of the A shear beam load cell, with strain gauges.

certified type Registered trade name : Hechang Electric

> Type **HCQB**

Characteristics See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 60 - Edition 2017 (E) for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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 and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.



NMi Certin B.V., OIML Issuing Authority NL1 **Issuing Authority**

1 November 2019



Certification Board

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. NMi-15200654-02 dated 11 December 2015 that includes 51 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E _{max})	500 kg up to and including 2500 kg
Minimum dead load	0 kg
Accuracy Class	С
Rated Output	3,000 ± 0,003 mV/V
Maximum number of load cell intervals (n)	4000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	10000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	4000
Input impedance	400 Ω ± 20 Ω
Temperature range	-10 °C / +40 °C
Fraction p _{LC}	0,7
Humidity Class	СН
Safe overload	150 % of E _{max}
Output impedance	352 Ω ± 3 Ω
Recommended excitation	10 - 12 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Alloy steel
Atmospheric protection	Hermetically welded

Remark:

1. The characteristics for n_{max} , Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.