



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-22.04 revision 0  
Project number 2217820  
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Issuing authority

NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and  
Manufacturer

Jiangsu Hongli Weighing Equipment Co., Ltd.  
No.21 Longhui Road, Wujin High-tech Development District  
Changzhou  
China

Identification of the  
certified type

A **shear beam load cell**, with strain gauges  
Registered trade name : HOLI  
Type : AS130, SS130, AS130S, SS130S, AS133,  
SS133, AS137, SS137, AS203, SS203

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.

Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
28 July 2022

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



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The conformity was established by the results of tests and examinations provided in the associated OIML Reports:

- No. NMI- 2217820-01 dated 28 July 2022 that includes 51 pages;
- No. NMI- 2217820-02 dated 28 July 2022 that includes 46 pages.

### Characteristics of the load cell:

Designation	AS130, AS130S, AS133, AS137, AS203		SS130, SS130S, SS133, SS137, SS203	
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	C			
Rated Output	2,0 ± 0,1 mV/V	3,0 ± 0,1 mV/V	2,0 ± 0,1 mV/V	3,0 ± 0,1 mV/V
Maximum number of load cell intervals (n) <sup>(1)</sup>	4000		6000	
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	20000		18000	
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	6000		6000	
Input impedance	381 Ω ± 10 Ω			
Temperature range	-10 °C / + 40 °C			
Fraction $p_{LC}$	0,7			
Humidity Class	CH			
Safe overload	150 % of $E_{max}$			
Output impedance	350 Ω ± 3 Ω			
Recommended excitation	10 V AC / DC			
Excitation maximum	15 V AC / DC			
Transducer material	Alloy steel		Stainless steel	
Atmospheric protection	Silicon rubber			

Remarks:

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.



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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.

## History

Revision	Date	Change(s)
0	28 July 2022	Initial issue