

OIML Member State
The Netherlands

Number R60/2000-A-NL1-25.05 revision 0
Project number 3937319
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Issuing authority

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

Applicant and
Manufacturer

Tuna Tarti ve Elektronik Sistemler Ltd. Sti.
1202/2 Sk. No.31/112 Halkapinar Mah
Konak/Izmir
TURKEY

Identification of the
certified type

A **shear beam load cell**, with strain gauges.
Type : SB

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 2000 (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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
24 March 2025

Certification Board

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

- No. R60/2000-NL1-06.03 dated 22 February 2006 that includes 40 pages;
- No. NMI-11200809-05 dated 10 April 2012 that includes 27 pages;
- No. NMI-13200048-04 dated 6 June 2013 that includes 27 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	150 kg up to and including 750 kg	1000 kg up to and including 5000 kg	7500 kg up to and including 20000 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	$2,00 \pm 0,002$ mV/V	$3,00 \pm 0,003$ mV/V	
Maximum number of load cell intervals (n)	3000		
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	10000		
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000		
Input impedance	$400 \Omega \pm 20 \Omega$		
Temperature range	$-10 \text{ }^\circ\text{C} / + 40 \text{ }^\circ\text{C}$		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150% of E_{max}		
Output impedance	$352 \Omega \pm 3 \Omega$		
Recommended excitation	10 - 12 V AC/DC		
Excitation maximum	15 V AC/DC		
Transducer material	Alloy steel		
Atmospheric protection	Hermetically welded		

The characteristics for n_{max} and Y can be reduced separately. Z is proportional or equal to n_{max} .

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



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Revision History

Revision	Date	Change(s)
0	24 March 2025	Initial issue.