

OIML Member State
The Netherlands

Number R60/2000-NL1-16.19
Project number 16200236
Page 1 of 3

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Shekel Scales Ltd Kibutz Beit Keshet MP Lower Galilee 1524700 Afula Israel
Identification of the certified type	A bending beam load cell , with strain gauges Type : DEBB-220 or DEBB-300
Characteristics	See next page

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 R60 - 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.

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**
9 June 2016



C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
the Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

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

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see www.nmi.nl).



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

- No. NMI-15200514-01 dated 18 November 2015 that includes 46 pages;
- No. NMI-15200514-02 dated 18 November 2015 that includes 51 pages;
- No. NMI-16200236-01 dated 7 June 2016 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	7 kg up to and including 20 kg		40 kg up to and including 80 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2,0 mV/V \pm 0,2 mV/V		
Maximum number of load cell intervals (n)	2500	3000	3000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	6000	7000	10000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	2500	10000	4500
Number of wires in load cell cable	4 or 6	6	4 or 6
Input impedance	415 $\Omega \pm 15 \Omega$ or 1180 $\Omega \pm 50 \Omega$		
Temperature range	+10 °C / +40 °C		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150 % of E_{max}		
Output impedance	350 $\Omega \pm 3 \Omega$ or 1000 $\Omega \pm 10 \Omega$		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 V AC / DC		
Transducer material	Aluminium		
Atmospheric protection	Silicon rubber		
Application	The load cell can be a single ended beam or a double ended beam. Each end of the beam does have a its own cable		

The characteristics are based on a single ended beam. The double ended beam should be considered as two separate load cells.

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



OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R60/2000-NL1-16.19
Project number 16200236
Page 3 of 3

Each produced load cell 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 MAA Declaration of Mutual Confidence:

- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.