

OIML Member State
The Netherlands

Number R60/2000-A-NL1-18.22
Project number 2232947
Page 1 of 2

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Transcell Technology, Inc. 975 Deerfield Parkway 60089 Buffalo Grove, Illinois United States of America
Identification of the certified type	A shear beam load cell , with strain gauges. Type : SBSF-x000Lx, SBSF-x000Hx
Characteristics	See next page

This OIML Certificate is issued under scheme A.

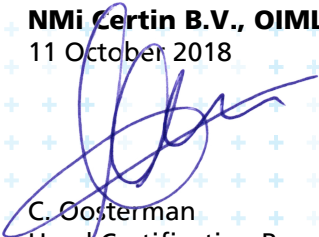
This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

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.

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**
11 October 2018



C. Oosterman
Head Certification Board

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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





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Page 2 of 2

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

- No. NMI-1902432-01 dated 11 September 2018 that includes 51 pages;
- No. NMI-2232947-01 dated 11 October 2018 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	1000 kg up to and including 5000 kg	
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2 mV/V	3 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	3000	
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	10000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3000	
Input impedance	$387 \Omega \pm 20 \Omega$	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	$350 \Omega \pm 5 \Omega$	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Alloy steel or stainless steel	
Atmospheric protection	Silicon rubber	

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 Type Evaluation 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.