



Ulrich Métrologie inc.
Ulrich Metrology Inc.
 9912, Côte-de-Liesse
 Montréal (Québec) H8T 1A1

Tél. (514) 631-6653
 Fax (514) 631-6122
 info@ulrich.ca
 www.ulrich.ca

CALIBRATION CERTIFICATE

Certificate no.: 330552
Identification: M008291M
Description: SCALE, GLASS MOTIC
Manufacturer: MOTIC

Calibration date: September 19, 2012
Certificate issued: September 19, 2012
Interval: 12 months
Due date: September 19, 2013
Procedure no.: CP-03 rev. 2
Procedure date: 2010-07-08
Environment: CLAS Type 1 Laboratory
Temperature: 20 ± 1°C
Humidity: 35 - 55% RH
Metrologist: XCH

Property of: G&R COLD FORGING PLANT 3
 7085 SMITH INDUSTRIAL DRIVE
 MCGREGOR, ON N0R 1J0

David Llorens
Approved by: David Llorens, Quality Manager

This calibration certificate is issued in accordance with the applicable requirements of ISO/IEC 17025 and Ulrich Metrology's quality manual QM-08. Measurement results provided are traceable to either the National Research Council Canada (NRC), the National Institute of Standards and Technology (NIST), a national laboratory of another country signatory to the CIPM Mutual Recognition Arrangement (MRA), or a calibration laboratory accredited by an accrediting body with which Canada has an equivalence agreement.

CALIBRATION STANDARDS

Identification	Description	Cal. date	Due date
301	Measuring Machine, Sip 550m	2012-02-22	2013-02-28

MEASUREMENT UNCERTAINTY

± 0.0013 mm.

The uncertainties are expanded using a coverage factor K=2 for a level of confidence of approximately 95%, assuming a normal distribution.

CALIBRATION DATA

Attribute	Nominal	As Found	As Left	Units
Scale Position 1 X	0.2000	0.2002	0.2002	mm
Scale Position 2 X	0.4000	0.4002	0.4002	mm
Scale Position 3 X	0.6000	0.5999	0.5999	mm
Scale Position 4 X	0.8000	0.8001	0.8001	mm
Scale Position 5 X	1.0000	1.0001	1.0001	mm
Scale Position 1 Y	0.2000	0.1999	0.1999	mm
Scale Position 2 Y	0.4000	0.4000	0.4000	mm
Scale Position 3 Y	0.6000	0.5998	0.5998	mm
Scale Position 4 Y	0.8000	0.8001	0.8001	mm
Scale Position 5 Y	1.0000	1.0001	1.0001	mm
Diameter 1.5 mm	1.5000	1.5036	1.5036	mm
Diameter 0.6 mm	0.6000	0.6013	0.6013	mm
Diameter 0.15 mm	0.1500	0.1506	0.1506	mm





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Attribute	Nominal	As Found	As Left	Units
Diameter 0.07 mm	0.0700	0.0725	0.0725	mm