



SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-4834



Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Cost Center / Customer: DIV20 / DON BANNON

Mail Stop: B57

Manufacturer/Model: STARRETT / 721

Description: CALIPER, 9 INCH

Serial Number: 03031512

Asset Number: 010085

Procedure: CALIPERS - 13 MAR 06

Work Order: 303100067

Date Issued: 1-Mar-2011

Date Calibrated: 1-Mar-2011

*** Date Due :** 1-Mar-2012

**** Results:** FOUND-LEFT

Temperature: 69.4 °F

Humidity: 42 %RH

Barometer: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of $k=2$.

Remarks: None

Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
006465	STARRETT	SS81A1	GAGE BLOCK WORKING SET	1-Oct-2010	1-Oct-2013

Walt Hill

Laboratory Manager

Perry Carpenter

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303100067	Mfr:	Starrett	Technician:	PWC
Asset No:	010085	Model:	721	Type Data:	Found-left
Serial No:	03031512	Type:	Digital Caliper 0-9 / .0005	Cal Date:	1-Mar-11
Remarks:					

Function/Range	Test Point	TI Read	Difference	+/-Limit	+/-Uncertainty	Result	%Limit
	inch	inch	inch	inch	inch		
Outside Scale	2.2500	2.2500	0.0000	0.002	0.00030	Pass	0%
	4.5000	4.5000	0.0000			Pass	0%
	6.7500	6.7505	0.0005			Pass	25%
	9.0000	9.0000	0.0000			Pass	0%
Inside Scale	0.5000	0.4995	-0.0005			Pass	25%
Depth Scale	1.0000	1.0005	0.0005			Pass	25%
Step Function	3.0000	3.0000	0.0000			Pass	0%

END OF REPORT