

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: DIV20

Mail Stop: B51

Customer: DON BANNON

Manufacturer/Model: STARRETT / 721

Description: CALIPER, 9 INCH

Serial Number: 03031512

Asset Number: 010085

Procedure: CALIPERS - 13 MAR 06

Work Order: 303086388

Date Issued: 20-Mar-2009

Date Calibrated: 20-Mar-2009

***Date Due :** 20-Mar-2010

****Results:** FOUND-LEFT

Temperature: 68°F

Humidity: 35 %

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. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of $k=2$ to approximate a 95% confidence level.

Remarks:

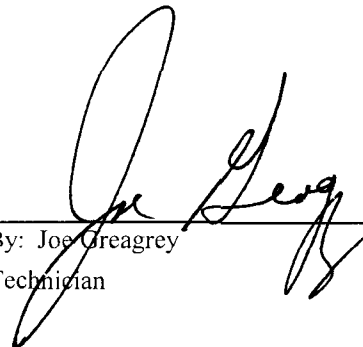
Standards Used

<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	17-Sep-2007	17-Sep-2010
007705	STARRETT	SS8A1X	GAGE BLOCK WORKING SET	12-Feb-2009	12-Feb-2011


Reviewed By: () srk () mar (x) wgh

Laboratory Quality Manager

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Calibrated By: Joe Greagrey
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303086388	Mfr:	Starrett	Technician:	JRG
Asset No:	010085	Model:	721	Type Data:	Found-left
Serial No:	03031512	Type:	Digital Caliper 0-9 / .0005	Cal Date:	20-Mar-09
Remarks:					

Function/Range	Test Point	TI Read	Difference	+/-Limit	+/-Uncertainty	Result	%Limit
	inch	inch	inch	inch	inch		
Outside Scale	2.2500	2.2505	0.0005	0.002	0.00029	Pass	25%
	4.5000	4.5000	0.0000			Pass	0%
	6.7500	6.7500	0.0000			Pass	0%
	9.0000	9.0005	0.0005			Pass	25%
Inside Scale	0.5000	0.5005	0.0005			Pass	25%
Depth Scale	1.0000	1.0000	0.0000			Pass	0%
Step Function	3.0000	3.0005	0.0005			Pass	25%
END OF REPORT							