SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Certificate of Calibration

ACCREDITED
Calibration Laboratory
Certificate #0972-01

Submitted By: DIV20
Address: B51
Contact: DON BANNON
Manufacturer / Model: STARRETT / 734M
Description: MICROMETER
Serial No: 02437171
Asset No: 010084
Procedure: MICROMETERS - 17 APR, 07

Work Order: 303079286
Date Issued: Feb 21, 2008
Calibration Date: Feb 21, 2008
***Calibration Due:** Feb 21, 2009
Calibration Location: Bldg. 64
Environment: Temp. 68.0°F Hum. 40 %RH
****Data Type:** FOUND-LEFT
DivID/Location: 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. ***Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client 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: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
011025	FMF4	STARRETT	WEBBER 10	GAGE BLOCK WORKING SET	Jul 24, 08
006179	CZ2	STARRETT	OFPS2	OPTICAL PARALLEL SET	Jul 24, 10

Reviewed by: (√) srk ( ) mar ( ) wgh

Measurements by: Joe Greagrey
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303079286	Mfr:	Starrett	Tech:	JRG
Asset No:	010084	Model:	734M		
Serial No:	02437171	Type:	Micrometer 25 mm	Cal Date:	21-Feb-08
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
	mm	mm	mm	mm	mm	Result
Flatness	Anvil					Pass
	Spindle					Pass
Linearity	5.334	5.335	0.001	0.003	0.0017	Pass
	10.668	10.669	0.001	0.003	0.0017	Pass
	15.367	15.369	0.002	0.003	0.0017	Pass
	20.701	20.703	0.002	0.003	0.0017	Pass
	25.400	25.400	0.000	0.003	0.0017	Pass

END OF REPORT