



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory  
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## Certificate of Calibration

0972-01

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer / Model: STARRETT / 734M

Description: MICROMETER

Serial No: 02437171

Asset No: 010084

Procedure: MICROMETERS - 14 MAR, 2006

Work Order: 303073372

Date Issued: Mar 1, 2007

Calibration Date: Mar 1, 2007

\*Calibration Due: Mar 1, 2008

Calibration Location: Bldg. 64

Environment: Temp. 68.0°F Hum. 44 %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 SET	Jul 13, 07

Reviewed by: blt ( ) jrg ( ) pwc ( ) wgh ( )

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Perry Carpenter

Metrology Technician

Southwest Research Institute  
 Calibration Laboratory  
 Measurement Report

Work Order:	303073372	Mfr:	Starrett	Tech:	PWC
Asset No:	010084	Model:	734M	Cal Date:	01-Mar-07
Serial No:	02437171	Type:	Micrometer 25 mm		
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	5.336	0.002	0.010	0.00058	Pass
	10.668	10.669	0.001	0.010	0.00058	Pass
	15.367	15.368	0.001	0.010	0.00058	Pass
	20.701	20.703	0.002	0.010	0.00058	Pass
	23.370	23.370	0.000	0.010	0.00058	Pass

END OF REPORT