



# 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 / 734M

**Description:** MICROMETER

**Serial Number:** 02437171

**Asset Number:** 010084

**Procedure:** MICROMETERS - 17 APR 07

**Work Order:** 303086386

**Date Issued:** 16-Mar-2009

**Date Calibrated:** 16-Mar-2009

**\*Date Due :** 16-Mar-2010

**\*\*Results:** FOUND-LEFT

**Temperature:** 6°F

**Humidity:** 37 %

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>
006179	STARRETT	OFPS2	OPTICAL PARALLEL SET	24-Jul-2007	24-Jul-2010
011025	STARRETT	WEBBER 10	GAGE BLOCK WORKING SET	7-Aug-2008	7-Aug-2009

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

Laboratory Quality Manager

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Calibrated By: Perry Carpenter

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303086386	Mfr:	Starrett	Tech:	PWC
Asset No:	010084	Model:	734M	Type Data:	Found-left
Serial No:	02437171	Type:	Micrometer 0-25.4 / .001mm	Cal Date:	16-Mar-09
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Result	%Limit
Flatness							
Anvil						Pass	n/a
Spindle						Pass	n/a
	mm	mm	mm	mm	mm		
Linearity	5.334	5.335	0.001	0.003	0.0011	Pass	33%
	10.668	10.668	0.000	0.003	0.0011	Pass	0%
	15.367	15.368	0.001	0.003	0.0011	Pass	33%
	20.701	20.702	0.001	0.003	0.0011	Pass	33%
	25.400	25.401	0.001	0.003	0.0011	Pass	33%

END OF REPORT