

# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

*Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:*

***EMI Gage  
28W144 Industrial Avenue Suite 100  
Lake Barrington, IL 60010***

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

***ISO/IEC 17025: 2005***

*This accreditation demonstrated technical competence for the following scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated June 18, 2005):*

***Calibration in the Laboratory and at Laboratory Controlled Field Sites of  
Instruments Measuring Surface Texture and Roundness  
(As detailed in the supplement)***

*Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.*

For PJLA:

President/Operations Manager

*The validity of this certificate is mandated through ongoing surveillance.*

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
26555 Evergreen, Suite 1325  
Southfield, Michigan 48076

*Initial Accreditation Date:*  
May 10, 2004

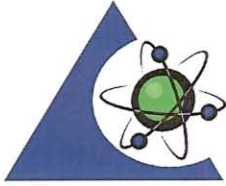
*Accreditation No.:*  
59244

*Issue Date:*  
July 10, 2008

*Certificate No.:*  
L08-47

*Expiration Date:*  
July 09, 2010

*Page No.:*  
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# Certificate of Accreditation: Supplement

**EMI Gage**  
 28W144 Industrial Avenue Suite 100  
 Lake Barrington, IL 60010

*Accreditation is granted to this facility to perform the following calibrations:*

CALIBRATION FIELD	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )
Dimensional	Surface Texture $R_a$	0.005 $\mu\text{m}$ to 1 mm	$2 \times \sqrt{(0.416^2 + (1.4 \times R_a)^2 + (0.318 \times \text{Std Dev})^2)}$
	Surface Texture $R_z$	0.100 $\mu\text{m}$ to 1 mm	$2 \times \sqrt{(0.462^2 + (1.4 \times R_z)^2 + (0.318 \times \text{Std Dev})^2)}$
	Roundness Out of Roundness	0 mm to 350 mm	5 nm (0.2 $\mu\text{in}$ )
	Roundness Flick	1.0 $\mu\text{m}$ to 2 mm	$2 \times \sqrt{(0.0166^2 + (0.620 \times \text{Std Dev})^2)}$