



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Pi Tape Texas, LLC***  
10235 Robinson Drive, Tyler, TX 75703

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

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Calibration of Dimensional Tapes***  
*(As detailed in the supplement)*

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. 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:

Tracy Szerszen  
President

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*Initial Accreditation Date:*

April 2, 2019

*Issue Date:*

July 30, 2021

*Expiration Date:*

July 30, 2023

*Accreditation No.:*

99092

*Certificate No.:*

L21-466

*The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: [www.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

## PI Tape Texas, LLC

10235 Robinson Drive, Tyler, TX 75703  
 Contact Name: Skip Phillips Phone: 760-815-3961

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

### Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Length <sup>F</sup>	Up to 67 858 mm (Up to 2 714 in)	(1.0 + 0.000 47L) $\mu$ m [37 + 0.47L] $\mu$ m]	Laser Measurement System PT Calibration Procedure 14
Master Tapes <sup>F</sup> (Diameter)	Up to 75 in (Up to 1 905 mm)	(10 + 0.67L) $\mu$ m [(0.26 + 0.000 67L) $\mu$ m]	Laser Measurement System PT Calibration Procedure 16
Ring Gauges <sup>F</sup>	Up to 75 in (Up to 1 905 mm)	(280 + 0.39L) $\mu$ m [(7.2 + 0.000 39L) $\mu$ m]	Master Tapes PT Calibration Procedure 16
Linear Machines marked for Diameter Measurements <sup>F</sup>	Up to 72 in (Up to 1 800 mm)	(81 + 0.62L) $\mu$ m [(0.45 + 0.000 62L) $\mu$ m]	Gage Blocks PT Calibration Procedure 6
	Up to 84 in (Up to 2 100 mm)	(13 + 0.37L) $\mu$ m [(0.34 + 0.000 37L) $\mu$ m]	Laser Measurement System PT Calibration Procedure 15
Linear Machines marked for Linear Measurements <sup>F</sup>	Up to 72 in (Up to 2 000 mm)	(63 + 0.88L) $\mu$ m [(1.0 + 0.000 68L) $\mu$ m]	Gage Blocks PT Calibration Procedure 7
	Up to 192 in (Up to 5 000 mm)	(47 + 0.33L) $\mu$ m [(1.0 + 0.000 38L) $\mu$ m]	Laser Measurement System PT Calibration Procedure 17
Precision Diameter Tapes <sup>F</sup>	Up to 75 in (Up to 1 905 mm)	(430 + 0.78L) $\mu$ m [(11 + 0.000 78L) $\mu$ m]	Ring Gages, Gage Blocks PT Calibration Procedures 1, 8 & 10
	Up to 144 in (Up to 3 658 mm)	(580 + 1.1L) $\mu$ m [(2.6 + 0.002 5L) $\mu$ m]	Linear Measuring Machine PT Calibration Procedures 2, 5 & 10
Digital Diameter Tapes <sup>F</sup> R = 0.0005 in	Up to 75 in	(380 + 0.78L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 72 in	(120 + 0.33L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	72 in to 144 in	(120 + 0.28L) $\mu$ m	
	144 in to 216 in	(100 + 0.42L) $\mu$ m	
	216 in to 288 in	(99 + 0.42L) $\mu$ m	
	288 in to 360 in	(59 + 0.56L) $\mu$ m	
	360 in to 432 in	(58 + 0.56L) $\mu$ m	
	432 in to 504 in	(1.9 + 0.69L) $\mu$ m	
	504 in to 576 in	(0.83L – 68) $\mu$ m	
	576 in to 648 in	(13 + 0.69L) $\mu$ m	
	648 in to 720 in	(1.1L – 250) $\mu$ m	
	720 in to 792 in	(1.1L – 250) $\mu$ m	
	792 in to 864 in	(1.4L – 490) $\mu$ m	
	864 in to 936 in	(1.7L – 750) $\mu$ m	
936 in to 1 008 in	(1.7L – 750) $\mu$ m		
1 008 in to 1 080 in	(1.9L – 1 000) $\mu$ m		



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Digital Diameter Tapes <sup>F</sup> R = 0.0005 in	1 080 in to 1 152 in	(2.8L – 1 900) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	1 152 in to 1 224 in	(2.8L – 1 900) $\mu$ in	
	1 224 in to 1 296 in	(4.2L – 3 600) $\mu$ in	
	1 296 in to 1 368 in	(2.8L – 1 800) $\mu$ in	
Outside Diameter Tapes, Inside Diameter Tapes, Belt Diameter Tapes, O-ring Diameter Tapes, & Wide Diameter Tapes O.D. & I.D. <sup>F</sup> Vernier = 25 in R = 0.001 in	Up to 75 in	(430 + 0.39L) $\mu$ in	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 72 in	(230 + 0.17L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	72 in to 144 in	(220 + 0.28L) $\mu$ in	
	144 in to 216 in	(220 + 0.28L) $\mu$ in	
	216 in to 288 in	(220 + 0.28L) $\mu$ in	
	288 in to 360 in	(180 + 0.42L) $\mu$ in	
	360 in to 432 in	(180 + 0.42L) $\mu$ in	
	432 in to 504 in	(120 + 0.56L) $\mu$ in	
	504 in to 576 in	(52 + 0.69L) $\mu$ in	
	576 in to 648 in	(0.83L – 28) $\mu$ in	
	648 in to 720 in	(0.97L – 120) $\mu$ in	
	720 in to 792 in	(0.97L – 120) $\mu$ in	
	792 in to 864 in	(1.4L – 460) $\mu$ in	
	864 in to 936 in	(1.5L – 550) $\mu$ in	
	936 in to 1008 in	(1.7L – 730) $\mu$ in	
	1 008 in to 1 080 in	(1.7L – 700) $\mu$ in	
	1 080 in to 1 152 in	(2.8L – 1 900) $\mu$ in	
1 152 in to 1 224 in	(2.8L – 1 900) $\mu$ in		
1 224 in to 1 296 in	(4.2L – 3 600) $\mu$ in		
1 296 in to 1 368 in	(2.8L – 1 800) $\mu$ in		
Digital Diameter Tapes, Outside Diameter Tapes, Inside Diameter Tapes, Belt Diameter Tapes, O-ring Diameter Tapes, & Wide Diameter Tapes O.D. & I.D. <sup>F</sup> Vernier = 50 mm R = 0.01 mm	Up to 1 905 mm	(9.5 + 0.000 46L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1



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Digital Diameter Tapes, Outside Diameter Tapes, Inside Diameter Tapes, Belt Diameter Tapes, O-ring Diameter Tapes, & Wide Diameter Tapes O.D. & I.D. <sup>F</sup> Vernier = 50 mm R = 0.01 mm	Up to 1 800 mm	(2.3 + 0.27L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	1 800 mm to 3 600 mm	(2.2 + 0.33L) $\mu$ m	
	3 600 mm to 5 400 mm	(2.4 + 0.28L) $\mu$ m	
	5 400 mm to 7 200 mm	(1.5 + 0.44L) $\mu$ m	
	7 200 mm to 9 000 mm	(1.1 + 0.5L) $\mu$ m	
	9 000 mm to 10 800 mm	(1.6 + 0.44L) $\mu$ m	
	10 800 mm to 12 600 mm	(0.72L – 1.4) $\mu$ m	
	12 600 mm to 14 400 mm	(0.67L – 0.74) $\mu$ m	
	14 400 mm to 16 200 mm	(0.12 + 0.61L) $\mu$ m	
	16 200 mm to 18 000 mm	(1.1L – 7.8) $\mu$ m	
	18 000 mm to 19 800 mm	(1.1L – 7.8) $\mu$ m	
	19 800 mm to 21 600 mm	(1.1L – 7.8) $\mu$ m	
	21 600 mm to 23 400 mm	(1.1L – 7.8) $\mu$ m	
	23 400 mm to 25 200 mm	(1.7L – 22) $\mu$ m	
	25 200 mm to 27 000 mm	(2.2L – 34) $\mu$ m	
	27 000 mm to 28 800 mm	(2.2L – 34) $\mu$ m	
28 800 mm to 30 600 mm	(1.7L – 20) $\mu$ m		
30 600 mm to 32 400 mm	(3.3L – 69) $\mu$ m		
32 400 mm to 34 200 mm	(3.9L – 88) $\mu$ m		
Go/No Go Diameter Tapes <sup>F</sup>	Up to 75 in	(360 + 0.78L) $\mu$ in	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 72 in	(36 + 0.48L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	72 in to 144 in	(30 + 0.56L) $\mu$ in	
	144 in to 216 in	(29 + 0.56L) $\mu$ in	
	216 in to 288 in	(29 + 0.56L) $\mu$ in	
	288 in to 360 in	(29 + 0.56L) $\mu$ in	
	360 in to 432 in	(0.69L – 18) $\mu$ in	
	432 in to 504 in	(0.69L – 18) $\mu$ in	
	504 in to 576 in	(0.83L – 88) $\mu$ in	
	576 in to 648 in	(0.83L – 88) $\mu$ in	
	648 in to 720 in	(1.1L – 260) $\mu$ in	
	720 in to 792 in	(1.1L – 260) $\mu$ in	
	792 in to 864 in	(1.4L – 500) $\mu$ in	
864 in to 936 in	(1.7L – 760) $\mu$ in		



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Go/No Go Diameter Tapes <sup>F</sup>	936 in to 1 008 in	(1.7L – 760) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	1 008 in to 1 080 in	(2.1L – 1 200) $\mu$ m	
	1 080 in to 1 152 in	(2.8L – 1 900) $\mu$ m	
	1 152 in to 1 224 in	(2.8L – 1 900) $\mu$ m	
	1 224 in to 1 296 in	(4.2L – 3 600) $\mu$ m	
	1 296 in to 1 368 in	(2.8L – 1 800) $\mu$ m	
	Up to 1 905 mm	(9.0 + 0.000 78L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 1 800 mm	(0.48 + 0.62L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	1 800 mm to 3 600 mm	(0.70 + 0.50L) $\mu$ m	
	3 600 mm to 5 400 mm	(1.1 + 0.39L) $\mu$ m	
	5 400 mm to 7 200 mm	(0.50 + 0.50L) $\mu$ m	
	7 200 mm to 9 000 mm	(0.10 + 0.56L) $\mu$ m	
	9 000 mm to 10 800 mm	(0.60 + 0.50L) $\mu$ m	
	10 800 mm to 12 600 mm	(0.72L – 1.8) $\mu$ m	
	12 600 mm to 14 400 mm	(0.72L – 1.8) $\mu$ m	
	14 400 mm to 16 200 mm	(0.78L – 2.6) $\mu$ m	
	16 200 mm to 18 000 mm	(1.1L – 7.8) $\mu$ m	
	18 000 mm to 19 800 mm	(1.1L – 7.8) $\mu$ m	
	19 800 mm to 21 600 mm	(1.1L – 7.8) $\mu$ m	
	21 600 mm to 23 400 mm	(1.1L – 7.8) $\mu$ m	
23 400 mm to 25 200 mm	(1.7L – 22) $\mu$ m		
25 200 mm to 27 000 mm	(2.2L – 34) $\mu$ m		
27 000 mm to 28 800 mm	(2.2L – 34) $\mu$ m		
28 800 mm to 30 600 mm	(1.7L – 20) $\mu$ m		
30 600 mm to 32 400 mm	(3.3L – 69) $\mu$ m		
32 400 mm to 34 200 mm	(3.9L – 88) $\mu$ m		
Outside Diameter Tapes <sup>F</sup> (Tapes with 0-10 inch vernier) R = 0.001 in	Up to 75 in	(430 + 0.39L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1



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Outside Diameter Tapes <sup>F</sup> (Tapes with 0-10 inch vernier) R = 0.001 in	Up to 72 in	(230 + 0.17L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 14
	72 in to 144 in	(220 + 0.28L) $\mu$ in	
	144 in to 216 in	(220 + 0.28L) $\mu$ in	
	216 in to 288 in	(220 + 0.28L) $\mu$ in	
	288 in to 360 in	(180 + 0.42L) $\mu$ in	
	360 in to 432 in	(180 + 0.42L) $\mu$ in	
	432 in to 504 in	(120 + 0.56L) $\mu$ in	
	504 in to 576 in	(52 + 0.69L) $\mu$ in	
	576 in to 648 in	(0.83L - 28) $\mu$ in	
	648 in to 720 in	(0.97L - 120) $\mu$ in	
	720 in to 792 in	(0.97L - 120) $\mu$ in	
	792 in to 864 in	(1.4L - 460) $\mu$ in	
	864 in to 936 in	(1.5L - 550) $\mu$ in	
	936 in to 1 008 in	(1.7L - 730) $\mu$ in	
	1 008 in to 1 080 in	(1.7L - 700) $\mu$ in	
Outside Diameter Tapes <sup>F</sup> (Tapes with 0-25 mm vernier) R = 0.01 mm	Up to 1 905 mm	(9.5 + 0.000 46L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up mm to 1 800 mm	(2.3 + 0.27L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 14
	1 800 mm to 3 600 mm	(2.2 + 0.33L) $\mu$ m	
	3 600 mm to 5 400 mm	(2.4 + 0.28L) $\mu$ m	
	5 400 mm to 7 200 mm	(1.5 + 0.44L) $\mu$ m	
	7 200 mm to 9 000 mm	(1.1 + 0.5L) $\mu$ m	
	9 000 mm to 10 800 mm	(1.6 + 0.44L) $\mu$ m	
	10 800 mm to 12 600 mm	(0.72L - 1.4) $\mu$ m	
	12 600 mm to 14 400 mm	(0.67L - 0.74) $\mu$ m	
	14 400 mm to 16 200 mm	(0.12 + 0.61L) $\mu$ m	
	16 200 mm to 18 000 mm	(1.1L - 7.8) $\mu$ m	
	18 000 mm to 19 800 mm	(1.1L - 7.8) $\mu$ m	



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Outside Diameter Tapes <sup>F</sup> (Tapes with 0-25 mm vernier) R = 0.01 mm	19 800 mm to 21 600 mm	(1.1L – 7.8) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 14
	21 600 mm to 23 400 mm	(1.1L – 7.8) $\mu$ m	
	23 400 mm to 25 200 mm	(1.7L – 22) $\mu$ m	
	25 200 mm to 27 000 mm	(2.2L – 34) $\mu$ m	
	27 000 mm to 28 800 mm	(2.2L – 34) $\mu$ m	
	28 800 mm to 30 600 mm	(1.7L – 20) $\mu$ m	
	30 600 mm to 32 400 mm	(3.3L – 69) $\mu$ m	
	32 400 mm to 34 200 mm	(3.9L – 88) $\mu$ m	
Outside Diameter Tapes <sup>F</sup> (Tapes with 0-10 mm vernier) R = 0.05 mm	Up to 1 905 mm	15 $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 1 800 mm	12 $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 14
	1 800 mm to 3 600 mm	12 $\mu$ m	
	3 600 mm to 5 400 mm	12 $\mu$ m	
	5 400 mm to 7 200 mm	12 $\mu$ m	
	7 200 mm to 9 000 mm	13 $\mu$ m	
	9 000 mm to 10 800 mm	13 $\mu$ m	
	10 800 mm to 12 600 mm	14 $\mu$ m	
	12 600 mm to 14 400 mm	14 $\mu$ m	
	14 400 mm to 16 200 mm	15 $\mu$ m	
	16 200 mm to 18 000 mm	17 $\mu$ m	
	18 000 mm to 19 800 mm	18 $\mu$ m	
	19 800 mm to 21 600 mm	20 $\mu$ m	
	21 600 mm to 23 400 mm	21 $\mu$ m	
	23 400 mm to 25 200 mm	24 $\mu$ m	
	25 200 mm to 27 000 mm	28 $\mu$ m	
27 000 mm to 28 800 mm	31 $\mu$ m		
28 800 mm to 30 600 mm	34 $\mu$ m		
30 600 mm to 32 400 mm	40 $\mu$ m		
32 400 mm to 34 200 mm	46 $\mu$ m		
Extended Range Tapes O.D. & I.D. <sup>F</sup> Vernier = 100 in R = 0.01 in	Up to 75 in	0.002 3 in	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1



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Extended Range Tapes O.D. & I.D. <sup>F</sup> Vernier = 100 in R = 0.01 in	Up to 72 in	0.002 3 in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	72 in to 144 in	0.002 3 in	
	144 in to 216 in	0.002 3 in	
	216 in to 288 in	0.002 3 in	
	288 in to 360 in	0.002 3 in	
	360 in to 432 in	0.002 3 in	
	432 in to 504 in	0.002 3 in	
	504 in to 576 in	0.002 3 in	
	576 in to 648 in	0.002 4 in	
	648 in to 720 in	0.002 4 in	
	720 in to 792 in	0.002 4 in	
	792 in to 864 in	0.002 4 in	
	864 in to 936 in	0.002 5 in	
	936 in to 1 008 in	0.002 5 in	
	1 008 in to 1 080 in	0.002 6 in	
1 080 in to 1 152 in	0.002 7 in		
1 152 in to 1 224 in	0.002 8 in		
1 224 in to 1 296 in	0.002 9 in		
1 296 in to 1 368 in	0.003 1 in		
Extended Range Tapes O.D. & I.D. <sup>F</sup> Vernier = 25 mm R = 0.5 mm	Up to 1 905 mm	120 µm	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 1
	Up to 1 800 mm	120 µm	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	1 800 mm to 3 600 mm	120 µm	
	3 600 mm to 5 400 mm	120 µm	
	5 400 mm to 7 200 mm	120 µm	
	7 200 mm to 9 000 mm	120 µm	
	9 000 mm to 10 800 mm	120 µm	
	10 800 mm to 12 600 mm	120 µm	
	12 600 mm to 14 400 mm	120 µm	
	14 400 mm to 16 200 mm	120 µm	
	16 200 mm to 18 000 mm	120 µm	
18 000 mm to 19 800 mm	120 µm		





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Extended Range Tapes O.D. & I.D. <sup>F</sup> Vernier = 25 mm R = 0.5 mm	19 800 mm to 21 600 mm	120 $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 2 & 5
	21 600 mm to 23 400 mm	120 $\mu$ m	
	23 400 mm to 25 200 mm	120 $\mu$ m	
	25 200 mm to 27 000 mm	120 $\mu$ m	
	27 000 mm to 28 800 mm	120 $\mu$ m	
	28 800 mm to 30 600 mm	120 $\mu$ m	
	30 600 mm to 32 400 mm	120 $\mu$ m	
	32 400 mm to 34 200 mm	120 $\mu$ m	
Precision Linear Measurement Tapes <sup>F</sup>	Up to 11 278 mm (Up to 444 in)	(19 + 0.005 6L) $\mu$ m [(350 + 4.8L) $\mu$ in]	Gage Blocks, Linear Measuring Machine PT Calibration Procedures 8, 9, & 10
Digital Linear Tapes <sup>F</sup> R = 0.0005 in	Up to 240 in	(160 + 0.39L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedure 9
	240 in to 480 in	(130 + 0.54L) $\mu$ in	
	480 in to 720 in	(130 + 0.54L) $\mu$ in	
	720 in to 960 in	(160 + 0.50L) $\mu$ in	
	960 in to 1200 in	(0.67L - 3) $\mu$ in	
Linear Tapes <sup>F</sup> Vernier = 25 in R = 0.001 in	Up in to 240 in	(260 + 0.31L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedure 9
	240 in to 480 in	(220 + 0.46L) $\mu$ in	
	480 in to 720 in	(200 + 0.50L) $\mu$ in	
	720 in to 960 in	(230 + 0.46L) $\mu$ in	
	960 in to 1 200 in	(65 + 0.63L) $\mu$ in	
Digital Linear Tapes <sup>F</sup> R = 0.01 mm	Up to 6000 mm	(3.6 + 0.44L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedure 9
	6 000 mm to 12 000 mm	(2.9 + 0.55L) $\mu$ m	
	12 000 mm to 18 000 mm	(4.5 + 0.42L) $\mu$ m	
	18 000 mm to 24 000 mm	(3.0 + 0.5L) $\mu$ m	
	24 000 mm to 30 000 mm	(3.0 + 0.50L) $\mu$ m	
	30 000 mm to 36 000 mm	(0.67L - 2.1) $\mu$ m	
	36 000 mm to 42 000 mm	(0.67L - 2.1) $\mu$ m	
	42 000 mm to 48 000 mm	(0.83L - 8.9) $\mu$ m	



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Linear Tapes <sup>F</sup> Vernier = 10 mm R = 0.1 mm	Up to 6 000 mm	(23 + 0.20L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedure 9
	6 000 mm to 12 000 mm	(23 + 0.17L) $\mu$ m	
	12 000 mm to 18 000 mm	(23 + 0.17L) $\mu$ m	
	18 000 mm to 24 000 mm	(20 + 0.33L) $\mu$ m	
	24 000 mm to 30 000 mm	(23 + 0.17L) $\mu$ m	
	30 000 mm to 36 000 mm	(14 + 0.50L) $\mu$ m	
	36 000 mm to 42 000 mm	(14 + 0.50L) $\mu$ m	
	42 000 mm to 48 000 mm	(6.9 + 0.67L) $\mu$ m	
Linear Vernier Scales <sup>F</sup>	Up to 10 mm (Up to 25 in)	24 $\mu$ m (300 $\mu$ in)	Optical Comparator PT Calibration Procedure 8
	Up to 50 mm (Up to 100 in)	8.2 $\mu$ m (300 $\mu$ in)	Laser Measurement System PT Calibration Procedure 14
Precision Circumference Tapes <sup>F</sup>	Up to 11 278 mm (Up to 444 in)	(19 + 0.005 6L) $\mu$ m [(350 + 4.8L) $\mu$ in]	Ring Gages, Gage Blocks, Linear Measuring Machine PT Calibration Procedures 5, 8, 11 & 12
Digital Circumference Tapes <sup>F</sup> R = 0.0005 in	Up to 240 in	1 200 $\mu$ in	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 11
	Up in to 240 in	(160 + 0.39L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 5 & 12
	240 in to 480 in	(130 + 0.54L) $\mu$ in	
	480 in to 720 in	(130 + 0.54L) $\mu$ in	
	720 in to 960 in	(160 + 0.50L) $\mu$ in	
	960 in to 1 200 in	(0.67L - 3) $\mu$ in	
Outside Circumference Tapes & Inside Circumference Tapes <sup>F</sup> Vernier = 25 in R = 0.001 in	Up in to 240 in	1 200 $\mu$ in	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 11
	Up in to 240 in	(260 + 0.31L) $\mu$ in	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 5 & 12
	240 in to 480 in	(220 + 0.46L) $\mu$ in	
	480 in to 720 in	(200 + 0.50L) $\mu$ in	
	720 in to 960 in	(230 + 0.46L) $\mu$ in	
	960 in to 1 200 in	(65 + 0.63L) $\mu$ in	



# Certificate of Accreditation: Supplement

## PI Tape Texas, LLC

10235 Robinson Drive, Tyler, TX 75703  
 Contact Name: Skip Phillips Phone: 760-815-3961

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

### Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Digital Circumference Tapes <sup>F</sup> R = 0.01 mm	Up to 6 100 mm	(29 + 0.00049L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 11
	Up to 6 000 mm	(3.6 + 0.44L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 5 & 12
	6 000 mm to 12 000 mm	(2.9 + 0.55L) $\mu$ m	
	12 000 mm to 18 000 mm	(4.5 + 0.42L) $\mu$ m	
	18 000 mm to 24 000 mm	(3.0 + 0.5L) $\mu$ m	
	24 000 mm to 30 000 mm	(3.0 + 0.50L) $\mu$ m	
	30 000 mm to 36 000 mm	(0.67L - 2.1) $\mu$ m	
	36 000 mm to 42 000 mm	(0.67L - 2.1) $\mu$ m	
Outside Circumference Tapes & Inside Circumference Tapes <sup>F</sup> Vernier = 10 mm R = 0.1 mm	Up to 6 100 mm	(37 + 0.00049L) $\mu$ m	Ring Gauges calibrated with Laser Measurement System PT Calibration Procedure 11
	Up to 6 000 mm	(23 + 0.20L) $\mu$ m	Linear Machine calibrated with Laser Measurement System PT Calibration Procedures 5 & 12
	6 000 mm to 12 000 mm	(23 + 0.17L) $\mu$ m	
	12 000 mm to 18 000 mm	(23 + 0.17L) $\mu$ m	
	18 000 mm to 24 000 mm	(20 + 0.33L) $\mu$ m	
	24 000 mm to 30 000 mm	(23 + 0.17L) $\mu$ m	
	30 000 mm to 36 000 mm	(14 + 0.50L) $\mu$ m	
	36 000 mm to 42 000 mm	(14 + 0.50L) $\mu$ m	
42 000 mm to 48 000 mm	(6.9 + 0.67L) $\mu$ m		

- The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor  $k$  (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
- The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
- The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this calibration at its fixed location.
- The term L represents length in inches or millimeters as appropriate to the uncertainty statement.