8411 Clinton Park Dr. FT WAYNE, IN 260-456-4545

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CALIBRATION RATE POLICY AND PRICING 2025

Typically, compliance with ISO-900x and IATF 16949 specifications require LONG FORM calibration reports in the following formats.

Format #1 -- Before Adjustment or `As found' with actual readings Format #2 -- After Adjustment or `After Repair' with actual readings or with maximum out-of-tolerance specifications stated on the Compliance Report.

LONG FORM calibration reports include nominal checkpoints or sizes and actual deviation from nominal data or actual size data. This report contains actual readings representing the actual size or accuracy of a gage; this type of a report is not a Compliance report.

The prices quoted in this list are for only one calibration report per gage. If a gage is checked for accuracy, found to be inaccurate, adjusted (by Repair or other means), two sets of calibration readings are necessary. One set of readings listing the `As found' accuracy is required and a second set of readings listing the `After Adjustment' accuracy is required. This would require increasing the Calibration prices quoted in this price list.

If 'As Found' and 'After Adjustment' calibration reports are necessary, the cost of the calibration will be 1.5 times the published price or as quoted.

The reason that our prices are for one set of calibration readings is that the gage may not need any adjustment and only one set of readings may be required.

All calibration reports comply with the minimum information requirements of ISO 17025, ANSI/NCSL Z540-1, and IATF-16949. Any additional customer specific requirements would result in additional charges.

**** IMPORTANT ****

There is a \$30.00 minimum charge for all Certification work. This minimum charge applies to invoice total not to individual gages.

NOTE: An `*' beside a group heading means that these items are included in our A2LA Accredited Scope.

We are Accredited to perform `On-Site' certifications for many of the items contained in our A2LA Scope. Please inquire. All calibrations performed meet the requirements of ISO-900X or IATF-16949.

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CALIBRATION RATES

	PRICES
*ANGLE BLOCKS	1.60 .00
10 or 12pc Sets	160.00
2 pc Sets (45 & 60 Deg)	55.00
Individual	40.00
*ANGLE PLATES: 2 Faces up to 18":	125.00
*UNIVERSAL 6 Face up to 18":	150.00
*BORE GAGES, DIAL: (Single Head)	
.0005" Grad. Indicator	55.00
.0001" Grad. Indicator	58.00
. 0001 Glad. Indicator	30.00
*Bore Gages, (Multiple head type)	
526 MTI Series, Diatest, etc	60.00
plus \$10.00 per measur	ing head
*BOREMATICS/BOREMICS (INGAGE, HOLTEST, ETC.)	
(Prices below include 1 display and 1 head)	
Note: Setting Rings Priced Separately	
.275" TO 4.0" (\$17.00 each addt. head)	55.00
4.1" TO 8.0" (\$25.00 each addt. head)	
112 20 010 (720.00 0001 0000 11000)	00.00
*CALIBRATION MASTERS:	
Mikemasters (0-1", 1-2", 2-3" SET)	100.00
Mikemaster -(SINGLE MEMBER)	50.00
Surveillance Masters (12" MAX O.D.)	
Kalmaster 6"	145.00
Kalmaster 12"	200.00
Depthgage Master (6")	150.00
(12")	225.00
MTI Check Master	
12"	165.00
18"	225.00
24"	300.00
	300.00
*CALIPERS: DIAL, VERNIER, & DIGITAL	
4" & 6"	24.00
8"	31.00
12"	42.00
18"	49.00
24"	66.00
36"	93.00
40"	121.00
48"	137.00
60"	165.00
72"	200.00
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	PRICES
*CHAMFER CHECK GAGE 90 deg. O.D./I.D	44.00
Chamfer Chek Rings (Exit Diameter)	55.00/77.00 2 Sides
*COMBINATION SQUARE SETS	
, - <u>-</u> , -	55.00
SQ HEAD OR CENTER HD w/wo BLADE	
PROTRACTOR HEAD w/wo BLADE	55.00
SQUARES, DOUBLE (LSS 13 Series)	55.00
PROTRACTORS (LSS C19, C183, C182, 493-	55.00
*DIAL INDICATOR CALIBRATORS:	
MTI 521 SERIES	
0050"	220.00
0200"	320.00
	320.00
All 0-1" Mechanical Mic Head Type	100.00
(MTI 170 Series, LSS 716 Series)	190.00
All 0-1" Digital Mic Head .00005" Res	
All 0-2" Digital Mic Head .00005" Res	
BOECKELER 0-1" Dig. Mic Head .00001" Res	275.00
+CACE BLOCKS: (Single Content Booding only) (\$25.0)	0 \
*GAGE BLOCKS: (Single Center Reading only) (\$35.00	
(measuring uncertainty is (3.8+.5L)uin) up to	
Price for Gage block sets (9pc and larger)-	
Non-set price (individual blocks)	15.00ea
Gage Blocks 5 to 12 inch	35.00ea
5 Point Check Gage block sets	6.00ea
*HEIGHT GAGES: DIAL, VERNIER & DIGITAL	
up to 12"	55.00
18"	66.00
24"	
36"	77.00
	93.00
40"	137.00
48"	160.00
60"	176.00
ALL .0001 and .00005" Resolution	
12"	110.00
18"	137.00
24"	170.00
24" MTI LH600	300.00
*HEIGHT MASTER TYPE GAGES:	
	330 00
Starrett DIGI-CHECK (12")	220.00
MTI Heightmaster (12")	220.00
18" Versions of Above	295.00
24" Versions of Above	330.00
6 & 12" RISER BLOCKS	66.00
	PRICES

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*INDICATORS: DIAL	(AGD	2	1/2	Revs.	Type)	
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.001", .0005", .00025" & .0001" Resolution	
Up to 1" Range (.001")	
.00005" & .00002" Resolution	
(Hysteresis Calibration for TIR)	55.00
*INDICATORS: DIAL LONG RANGE: 2" and Over	
.001 (2")	30.00
.001 (3")	38.00
.001 (4")	47.00
.001 (5")	44.00
.0001 (Over .050 to .100)	38.00
.0001 (Over .100 to .250)	44.00
.0001 (Over .250 to .500)	50.00
	22.22
*INDICATORS: ALL Digital (up to 1.2 Range)	
*INDICATORS: ALL Digital (up to 2.0 Range)	
All Digital (above 2.0 range)	- 60.00
*INDICATORS: TEST	
.001", .0005", & .0001" Resolution	
(Dual Direction Calibration)	36.00
(Hysteresis Calibration for TIR)	
(- <u>1</u> ,	
*LEVELS:	
Starrett 97 & 98 Series/ALL .005"/FT	45.00
Starrett 199 Master/ALL .0005"/FT	66.00
Master Level .0002"/10"	93.00
1.0001 1.0001 7.10	33.00
*MICROMETERS: Standard O.D. (All Types)	
1-6"	26.00
7-12"	33.00
13-18	44.00
19-24	60.00
25 & UP	3.25/IN
*MICROMETER, THREAD	37.00+11.00/Anvil Set
	37.007.22.007.22.02
*MICROMETER (Hi-Accuracy 293-130 MTI)	
0-1"	110.00
*MICROMETERS, INDICATING (Etalon, 510 Series M	MTI)
0-1"	50.00
1-2"	55.00
2-3"	66.00
3-4"	82.00

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	PRICES
*MICROMETERS, INDICATING (523 Series MTI)	
0-1" (0-25mm)	36.00
1-2" (25-50mm)	38.00
2-3" (50-75mm)	44.00
3-4" (75-100mm)	55.00
,	
*MICROMETERS, DEPTH: (As Found pricing)	
0-3	44.00
0-4	49.00
0-6	55.00
0-6	
0-12	63.00
	71.00
Additional 11.00 per Re-Set Rod	
Certs with Re-Set Rods will be 'As	Found' and 'As Left'
*MICROMETERS, INSIDE MICS:	
Micrometer Head (and 1 rod)	55.00
Additional Rods (each)	15.00
(Additional \$10.00 per Re-Set Rod Cert	
•	
Series 145 MTI	33.00
301100 110 1111	33.00
*INTERCHANGEABLE ANVIL MICROMETERS:	
0-4	60.00
0-6	74.00
0 0	
Above 6" (Cost of minimum range microme	
plus 12.00 per anvil for each	n anvil in set.)
T 1 C" 10" C T" '	4 22 00
Example 6" to 12" 6-7" mic	
6 anvils	
	\$105.00 For 6-12" mic
Note: Most mics have standards	
*BENCH MICROMETERS:	
Pratt & Whitney SUPERMIC	300.00
Mitutoyo 162 Series Bench Mic	275.00
Starrett 673 Bench Mic (w/Spindle Cert)	275.00
Starrett 673 WIRE Bench Mic (NO SPINDLE	
Fowler Mini-Horizontal	
10,1201 11 10111011011	
*MICROMETER HEADS: (Regular Type)	
0-1" Mechanical Head	55.00
0-2" Mechanical Head	
0-1" Digital (.00005" Res)	
0-2" Digital (.0001" & .00005" Res.)	100.00

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*OPTICAL PARALLELS (Parallelism and Flatness) Single Parallel	tristaternstrumentservice.com	DDIGEO			
Single Parallel	+0D#TG1T D1D1TTTG (D 11 1 1 1 1 1 1 1)	PRICES			
Set of 2 Parallels		44.00			
***STANDARDS, MICROMETER (End) 1-2"					
*STANDARDS, MICROMETER (End) 1-2"					
11-2"	Set of 4 Parallels	165.00			
11-2"	+CMANDADDG MTCDOMEMED (E-4)				
Above 2"/50mm to 12"/300mm		16.00			
11.00+1.75 per inch ea. 40 to 60"					
#STANDARDS, THREAD MIC (1-5") 37.00 ea. *STANDARDS, THREAD MIC (1-5") 37.00 ea. *PLUG GAGES, SMOOTH (WIRE, TAPERLOCK, TRI-LOCK):					
**STANDARDS, THREAD MIC (1-5") 37.00 ea. **PLUG GAGES, SMOOTH (WIRE, TAPERLOCK, TRI-LOCK):			-	inch	ea.
*PLUG GAGES, SMOOTH (WIRE, TAPERLOCK, TRI-LOCK):					
(per member) six sizes reported .0040020 dia	*STANDARDS, THREAD MIC (1-5")	37.00	ea.		
(per member) six sizes reported .0040020 dia	*PLUG GAGES SMOOTH (WIRE TAPERLOCK TRI-LOCK)				
.0040020 dia		•			
.0201 - 2.00 dia	(per member) SIX SIZES reported				
.0201 - 2.00 dia	.0040020 dia	24.00			
2.0001 - 4.00 dia					
### 4.0001 - 8.00 dia					
8.0001 -12.00 dia					
XX TOLERANCES over 1.00" add 10.00 XXX MASTERS (Actual Size 5uIN Uncert. Under 1") 48.00 *PIN GAGE SETS (.0001 & .0002 TOLERANCE) (Single Size Reported) *ALL Manufacturer's Sets (In Case)					
**XXX MASTERS (Actual Size 5uIN Uncert. Under 1") 48.00 **PIN GAGE SETS (.0001 & .0002 TOLERANCE) (Single Size Reported) **ALL Manufacturer's Sets (In Case)					
*PIN GAGE SETS (.0001 & .0002 TOLERANCE) (Single Size Reported) *ALL Manufacturer's Sets (In Case)					
*ALL Manufacturer's Sets (In Case)	XXX MASTERS (Actual Size buln Uncert. Under	1") 48.00			
*Misc Loose Pins - UNKNOWN TOLERANCE / NO MARKED SIZE Checked to +/0001/.0002" only 3.25 per pin *Six Data Points per Member Reported 11.00 per pin NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)90 per pin *DELTRONIC DECIMAL CHECK SET: Under .50"	*PIN GAGE SETS (.0001 & .0002 TOLERANCE) (Single	e Size Repo	rted)	1	
*Misc Loose Pins - UNKNOWN TOLERANCE / NO MARKED SIZE Checked to +/0001/.0002" only 3.25 per pin *Six Data Points per Member Reported 11.00 per pin NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)90 per pin *DELTRONIC DECIMAL CHECK SET: Under .50"	*ALL Manufacturer's Sets (In Case)				
*Misc Loose Pins - UNKNOWN TOLERANCE / NO MARKED SIZE Checked to +/0001/.0002" only 3.25 per pin *Six Data Points per Member Reported 11.00 per pin NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)90 per pin *DELTRONIC DECIMAL CHECK SET: Under .50"		- 1.10	per	pin	
Checked to +/0001/.0002" only 3.25 per pin *Six Data Points per Member Reported 11.00 per pin NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)90 per pin *DELTRONIC DECIMAL CHECK SET: Under .50"			-	-	
Checked to +/0001/.0002" only 3.25 per pin *Six Data Points per Member Reported 11.00 per pin NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)90 per pin *DELTRONIC DECIMAL CHECK SET: Under .50"	*Misc Loose Pins - UNKNOWN TOLERANCE / NO MA	RKED SIZE			
*Six Data Points per Member Reported			per	pin	
NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)			-	F	
NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MISC PINS NOTE: More Than 500 pins (in sets)	*Six Data Points per Member Reported	- 11.00	per	pin	
NOTE: More Than 500 pins (in sets)			•	•	
NOTE: More Than 500 pins (in sets)	NOTE: THERE IS A \$25.00 MINIMUM CHARGE FOR MIS	SC PINS			
*DELTRONIC DECIMAL CHECK SET: Under .50"	·		per	pin	
Under .50"			<u>.</u>	F	
Under .50"	*DELTRONIC DECIMAL CHECK SET:				
Over .5001"					
Over .5001"	Under 50"	10 00	ner	nin	
Note: Four data points per pin Reported PRESSURE GAGES: 5000 PSI MAX. UP TO 1500 PSI MAX			_	_	
PRESSURE GAGES: 5000 PSI MAX. 44.00 UP TO 1500 PSI MAX. 44.00 1510 - 3000 PSI MAX. 49.00 3010 - 5000 PSI MAX. 66.00		14.00	Per	Pın	
UP TO 1500 PSI MAX 44.00 1510 - 3000 PSI MAX 49.00 3010 - 5000 PSI MAX 66.00					
1510 - 3000 PSI MAX 49.00 3010 - 5000 PSI MAX 66.00	FREDOORE GAGED. JOUV FSI PIAA.				
1510 - 3000 PSI MAX 49.00 3010 - 5000 PSI MAX 66.00	IID TO 1500 DST MAY	44 00			
3010 - 5000 PSI MAX 66.00					
*PROTRACTORS, Precision (Bevel & Digital) - 66.00	5010 - 5000 PSI MAX	66.00			
*PROTRACTORS, Precision (Bevel & Digital) - 66.00	+DDOMDAGMODG Description (Description)	<i>cc</i> 00			
	*PROTRACTORS, Precision (Bevel & Digital)-	66.00			

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+DINGG GUI INDDIGNI (Gwaath)	Prices	
*RINGS, CYLINDRICAL (Smooth):	F0 00	
.0401249"	52.00	
.125 - 4.00"	26.00	
4.0001 - 8.00"		
8.0001 -12.00"	77.00	
*RULES: (Non-CMM Checked) Compliance ONLY		
6"- 18"	30.00	
24"- 40"(600 TO 1000mm)	50.00	
Above 40" to 48" (to 1200mm	66.00	
*RULES: (CMM Checked) 3000 mm Maximum	BASE PRICES	
	DASE PRICES	
Data Point Certification		
Up to 18"	110.00	
24" (600mm)	137.50	
36"-48" (1000mm - 1200mm)		
60"/72" (1500mm/2000mm)	200.00	
UP TO 3000mm)	275.00	
2 Sides 1 set of reading per side -BASE TIMES		2.0
2 Sides 4 sets of readings (2 sets per side)	21102 11120	3.0
*Rules: (Glass Scales)	INCH	INCH/MM
*Rules: (Glass Scales) 2" to 6"	INCH 160.00	INCH/MM 250.00
*Rules: (Glass Scales) 2" to 6" 8" to 12"	INCH 160.00 250.00	INCH/MM 250.00 350.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16"	INCH 160.00 250.00 300.00	INCH/MM 250.00 350.00 525.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24"	INCH 160.00 250.00 300.00 440.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24" Starrett 5584 (Fiducial length only)	INCH 160.00 250.00 300.00 440.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24" Starrett 5584 (Fiducial length only) (Rectangle and 1" Rule) Add	INCH 160.00 250.00 300.00 440.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24" Starrett 5584 (Fiducial length only)	INCH 160.00 250.00 300.00 440.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24" Starrett 5584 (Fiducial length only) (Rectangle and 1" Rule) Add	INCH 160.00 250.00 300.00 440.00 4 1 3	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6" 8" to 12" 13" to 16" 17" to 24" Starrett 5584 (Fiducial length only) (Rectangle and 1" Rule) Add (Circles) Add *Magnification Checkers (per Mag. Scale) -	INCH 160.00 250.00 300.00 440.00 4 1 3	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00 500.00 250.00 100.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00 500.00 250.00 100.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00 500.00 250.00 100.00 55.00 73.00	INCH/MM 250.00 350.00 525.00 550.00
*Rules: (Glass Scales) 2" to 6"	INCH 160.00 250.00 300.00 440.00 4 1 3 82.00 500.00 250.00 100.00	INCH/MM 250.00 350.00 525.00 550.00

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	Prices
*SQUARES, (Cylindrical)	
Under 12"	73.00
12"	94.00
*SURFACE FINISH TEST PIECE (SINGLE PATCH)	55.00
*SURFACE FINISH TEST PIECE (DUAL PATCH)	66.00
(ADDITIONAL PATCHES \$16.00 EACH)	
*Surftest MTI 200/300 Series	105.00
(DOES NOT INCLUDE TESTPIECE)	195.00
*Surftest MTI 400 Series	
(DOES NOT INCLUDE TESTPIECE)	250.00
(DOES NOT INCHODE TESTFIECE)	250.00
*THREAD WIRES	
	26.50/Set
3 Pc WIRE SETS (IN HOLDER) (PER PITCH)	33.00/Set
, , , , ,	•
*THREAD PLUGS - Per Member (55 and 60 deg Thrd)	Long Form
(Unified Thread Form)	
Up to 1 1/2"	16.50
Over 1 1/2" To 4"	30.00
Over 4"	50.00
*THREAD RINGS - Per Ring (Standard Sizes only)	
Up to 1 1/2"	18.50
Over 1 1/2 to 4" (w/Customer SET PLUG)	
Over 4" (w/Customer SET PLUG)	
Solid Rings over .500"	83.00

PLEASE NOTE: On sizes for which a set plug is not in stock or is not furnished with the ring a special tooling charge will be quoted prior to calibration.

Rings with Customer Setplug - Setplug will be checked for calibration also.

(No Certificate of Inspection will be issued for Setplug without additional charge.)

*TAPERED PIPE THREADS - NPT, NPTF ETC.

Up to 2" Sizes	s (Per Member)	
Pipe Plugs		33.00
Pipe Rings		38.50
6-Step		38.50
Masters		QUOTE
*V-BLOCKS:		
Single V Only		55.00
Double V		83.00

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	PRICES
*MISC TOOLS:	
1-2-3 Blocks (1-2-3)	36.50/BLK
1-2-3 Blocks (2-4-6)	38.50/BLK
201 Series MTI Snap Gage w/ind	61.00
270 Starrett Taper Gage	50.00
Adjustable Parallels (set of 6)	75.00
Blake CO-AX Type Indicator	38.50
Ball Type Plug Gage per member	25.00
Box Parallels (4 Sides)	85.00
Comtor Gage	45.00
Comtor Calibration Gage	110.00
CMM Reference Sphere (Diameter)	66.00
Film Standards	11.00ea
Fixed Snap Gage (Parallelism & Size) -	61.00
	75.00
	61.00
Oditest	33.00
MuChecker (519-402 analog display)	195.00
Each LVDT extra	55.00
Radius Gages (26 pc set)	145.00
Single Range Digital Display w/Cartridge	
Head - includes Adj. Gaining	110.00
Thickness Gages (Per Leaf)	3.75
V-Anvil Micrometer 1" and 2"	45.00
3" and 4"	55.00
above 5"	70.00
7218 Mitutoyo Dial/Digital Depth Gage	53.00
7304 Mitutoyo Dial/Digtial Thickness Gage	65.00
Surface Finish Comparison Specimen - per patch	12.00 120.00 Min

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SURFACE PLATE CALIBRATION AND RESURFACING

The following is the pricing for calibration and resurfacing of all granite surface plates. All plates will be either calibrated or resurfaced to tolerances of overall unilateral flatness and repeat readings as currently specified in Federal Standard GGG-P-463c and all calibration is traceable to the National Institute of Standards and Technology.

Calibration (Traceable to N.I.S.T.) -----4.00 sq. ft.

Resurfacing:	
AA (Laboratory Grade)	20.00 sq. ft.
A (Inspection Grade)	15.00 sq. ft.
B (Tool Room Grage)	12.00 sq. ft.
Resurfacing includes the Calibration Charges.	
MINIMUM CHARGE PER PLATE	\$25.00
MINIMUM INVOICE AMOUNT	\$125.00*

*Travel charges will apply in addition to the minimum invoice amount depending on your Location ---- Please Inquire.

TRI-STATE INSTRUMENT SVC does NOT do the resurfacing NOR the calibration of the plates. We represent a company that meets our standards of workmanship. The above charges are exactly the same as would be quoted by the company that does the calibration and resurfacing.

Since many times the travel charges are fairly steep, we act as an agent in lining up several different companies that all need their plates surfaced or calibrated at the same time. This way the travel charges may be spread out among different companies thereby saving you money.

Your may send your purchase order to us and we will advise when the next time the resurfacing people will be in the area. Of course it is always possible to have them in for just your plates as well.

On your order please state the number, size, and grades of your plates.

TRI-STATE Does represent several Granite Surface Plate companies offering a complete line of Granite products and we would be happy to quote on any needs that you might have.

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OPTICAL COMPARATOR: CALIBRATION AND CERTIFICATION RATE

PER SERVICE CALL:

BASIC CALIBRATION RATE: \$195.00 MINIMUM CHARGE ADDITIONAL CALIBRATIONS LABOR RATE: \$145.00 PER HOUR TRAVEL TIME RATE: \$145.00 PER HOUR (Mileage included) MINIMUM CHARGE: \$285.00 (Including travel time)

BASIC RATE INCLUDES THE FOLLOWING:

- 1. External clean-Up of machine necessary to check accuracy only.
- 2. Minor repairs and adjustments necessary to check accuracy or to enhance function.

NOTE:

Your charge for more extensive repairs, or time consuming calibration or multiple comparators will be will be billed at \$145.00 Per Hour for the TOTAL TIME Spent (including travel time) and the \$285.00 MINIMUM Charge will be waived.

If estimated travel and labor time exceeds 12 hours and an overnight stay is required, expenses for meals and lodging may be charged (at ACTUAL COSTS). If no overnight stay is required, all time OVER 8 Hours will be billed at \$215.00 per hour.

PLEASE NOTE:

WE ARE A2LA ACCREDITED TO PERFORM OPTICAL COMPARATOR CALIBRATIONS ONSITE.

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AT CUSTOMER'S PLANT CALIBRATION

Tri-State Instrument Service, Inc. also will do calibration of your gages at your facility. Not all gages can be checked for accuracy at the customer's facility. These gages include Master gages used to check the accuracy of other production gages (gage blocks, micrometer standards, calibration testers etc.), and gages that require additional masters that are not easily transportable. Such gages are O.D. plug gages, ring gages, thread gages, V-blocks, angle plates, etc. Gages such as height gages can only be certified for accuracy if the surface plate has VERY recently been Certified and it is a Grade A or better plate.

The customer must provide:

- 1. A clean well lighted work place for the technician to work in.
- 2. The gages to be checked must already be at that area or a person must be provided to go and get the tools and bring them to that area.

All gages to be certified should be serialized or in some way be uniquely identified.

The in-plant work performed will be to do minor cleaning of gage (enough so that it can be checked for accuracy), minor repairs and adjustments (if needed to check the accuracy), checking the gage accuracy by comparison to a `Known Size' master or calibration checker which has had the accuracy Certified traceable to the National Institute of Standards and Technology.

Charges for in-plant certification of accuracy are:

\$130.00 per hour in-plant time

\$130.00 per hour travel time - portal to portal (includes mileage.)

\$10.00 per tool Long Form Certification (labor to provide finished per tool paperwork)

\$130.00 Minimum billing per visit not including travel time.

Exact quotations of cost are not entirely possible since there is no set way to predict how bad or how good the customer gages are, how long the technician must `wait' on gages to be brought to him, and how many questions the technician may have to answer. We have found however that the prices of `in-plant' certification and `at Tri-State' certification prices are very close to the same.

If estimated travel and labor time exceeds 12 hours and an overnight stay is required, expenses for meals and lodging may be charged at actual costs. If no overnight stay is required, all time over 8 hours will be billed at \$195.00 per hour.

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SURFACE PLATE CALIBRATION ONLY

The following is the pricing for calibration only NOT resurfacing granite surface plates. All plates will be calibrated for accuracy, overall unilateral flatness, and repeat readings as currently specified in Federal Standard GGG-P-463c and all calibration is traceable to the National Institute of Standards and Technology. All plates are checked using Federal Electronic Levels and a 3 dimensional printout detailing the profile of your plate is provided.

Calibration (A2LA Accredited)

Plates 24"x 24" and under ----- \$125.00 ea.

Plates Larger than 24"x 24" up to and including 48"x 48" ----- \$200.00 ea.

Plates Over 48"x 48" ----- Quote

TRI-STATE INSTRUMENT SVC, Inc. DOES NOT resurface granite plates.

We do represent a company that meets our standards of workmanship. The company that we represent is not an Accredited company. Certification from this company does not meet the minimum requirements of QS-9000. However, combining this company's re-surfacing with our Certification does meet all ISO-900x, IATFf-16949, ANSI-Z540-1, ISO-17025, and QS-9000 minimum requirements.

Since, many times the travel charges from the company that does the lapping, can be fairly steep, we act as an agent in lining up several different companies that all need their plates re-surfaced. This way the travel charges may be spread out among different companies thereby saving you money.

If you do not wear you plates very much, but are required to yearly or biyearly have the plates calibrated, Tri-State Instrument Svc can come to your plant and calibrate your plates. Arrangements can then be made to have any plates that do not meet your specifications re-lapped at a later date.

On your order, please state the number, size, and grades of your plates.

TRI-STATE INSTRUMENT SVC represents several Granite Surface Plate companies offering a complete line of Granite products and we would be happy to quote on any needs that you might have.

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HDV/AVR CALIBRATION RATES 2025

HDV 300/400 AVR FOV 200/300 Calibration requires increased expertise and additional calibration masters and is considerably more complicated to calibrate than a regular optical comparator.

Tri-State offers several calibration rates for calibration:

If your HDV/AVR is found to exceed Factory Specifications for accuracy, we will Error Compensation the accuracy to make your HDV/AVR as accurate as possible. Error Compensation will be done utilizing NLEC (non-linear error compensation). This type of error compensation maps the accuracy error in both the X and Y axis simultaneously and corrects for those errors. NLEC error correction is more time consuming but is needed to achieve the accuracy that your HDV is capable of. It corrects for camera, squareness, mechanical and linear accuracy errors. AS FOUND and AS LEFT data will be reported. (2 Sets of Data results are reported)

```
As Found and As Left Data --- CNC HDV ----- $700.00

As Found and As Left Data --- Non-CNC HDV ----- $900.00

(Maximum of 2 Lens - not including Zoom)

For Additional Lens Add -- $50.00

For Zoom Lens ---- Quote
```

Factory specifications for X and Y accuracy of an HDV is 3.0 um + L/33 um L= Length in mm. (Accuracy at 6''/150 mm is +/-.00030''/.0075 mm.)

Factory specifications for X and Y accuracy of an AVR is 1.9um +5L/1000um L= Length in mm.

(Accuracy at 6"/150mm is +/- .00010"/.00265mm.)

If your HDV/AVR FOV is found to be within Factory Specifications for accuracy, AS FOUND data is reported.(1 set of Data results is reported). You will be billed only the following:

```
As Found=As Left Data --- CNC HDV ----- $450.00
As Found=As Left Data --- Non-CNC HDV ----- $600.00
```

NOTE: ABOVE PRICES DO NOT INCLUDE TRAVEL TIME. TRAVEL TIME BILLED AT 150.00 PER HOUR PORTAL TO PORTAL.

Price for AVR with ZOOM Lens ---- Quote