



Quad State
Gauging & Measurement

ISO 17025 Accredited

622 Enterprise Drive | Cedar Falls, IA 50613 | Phone: (319) 277-4429 | Fax: (319) 268-2226 | www.QuadState.net

Prices effective as of January 1, 2009

E-Mail: Sales@QuadState.net

GAUGE CALIBRATION PRICE LIST

Multiply prices by 1.5 if weekend work is requested.

Cylindrical Checking Gauges

	Up to 150 mm (6 inches)		150mm to 300 mm (6-12inch)	
	Code	Price	Code	Price
Cylindrical Plug Member/end	001	\$8.25	201	\$12.00
Progressive Plug Gauge	003	\$15.15	203	\$22.75
Flat Plug Member	004	\$7.70	204	\$11.40
Dubo Plug Member/end	005	\$8.90	205	\$15.80
Alignment Plug	006	\$15.15	206	\$25.25
Taper Plug/end	007	\$22.75	207	\$30.35
ID Bar Gauge	008	\$7.60	208	\$11.40
Panametric Thickness	009	\$8.25		
Hex Plug	010	\$18.95		
Globe Torx Plug	141	\$37.90		

Working Thread Plug Member or Split Thread Ring Calibrate/Certify

	Calibration Only per member			Adjust and Calibrate per member		
	Code	Price		Code	Price	
M1.6 - M100/end (up to 4.00 inch)	011	\$9.50	*	211	\$19.00	*
M101-M150/end (4.001 to 6 inch)	012	\$12.00	*	212	\$30.15	*
M151 - M200/end (6.001 to 8 inch)	013	\$19.65	*	213	\$42.25	*
Over M201/end (8.001 inch)	014	\$23.40	*	214	\$48.28	*
Leitech thread plug/end	C-011-L	\$19.00	*			
Spline plugs/end	C-142	\$42.00				
Spline Rings	C-138	\$55.00				

*Prices for thread ring calibrations are based on the availability of thread setting master.

Master Thread Setting Plug Member Calibration

	<u>Code</u>	<u>Price</u>	
Up to M100 (4 inches)	015	\$15.20	each member
M101 - M150 (4.001 to 6 inch)	016	\$25.30	each member
M151 - M200 (6001 to 8 inch)	017	\$40.45	each member
Over M200 (8 inches)	018	Quote	
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NPT, NPTF and ANPT Thread Plug Member or Ring Calibration

	<u>Code</u>	<u>Price</u>
Up to 2.00 inch For each additional notch \$2.00	019	\$19.00
2.01 to 6 inch For each additional notch \$2.00	020	\$34.15
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Master Disc and Master Ring

	<u>Code</u>	<u>Price</u>
From .02 (.5 mm) to .35 (9.0 mm), Cls XX, X, Y, Z	029	\$50.50
> .350 (9 mm) To 150 mm or 6 inch in X, Y, Z Tolerances	030	\$12.70
> .350 (9 mm) to 150 mm or 6 inch in XX and XXX Tolerances	031	\$22.75
>150 mm or 6 inch in X,Y,Z Tolerances	032	\$21.50
>150 mm or 6 inch in XX and XXX Tolerances	033	\$40.45
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Micrometer and Caliper Surveillance Masters

	<u>Code</u>	<u>Price</u>
Mikemaster, Kalmaster and Depthmaster per Step	035	\$10.20
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Thread Wires, Gauge Pins, End Standards & Gauge Blocks

	<u>Code</u>	<u>Price</u>
Hardness Masters	040	\$12.65
End Standards up to and including 150 mm or 6 inch greater than > 150 mm or 6 inch add \$.50 per 25 mm or 1 inch (plus .50 every inch)	041	\$7.65
Gear or Thread Wire (each)	042	\$7.40
Thread Measuring Wire Set (3 per set)	42S	\$11.35
Gauge Pin Set per Pin--Class ZZ tolerance (+or-.005mm or .0002 inch)(1 reading-No actuals on cert)	043a	\$1.25
Gauge Pin Set per Pin--Class ZZ Tolerance (.005mm or .0002 inch)(3 readings-Actuals on cert.)	43b	\$1.45
Gauge Pin Set per Pin--Class Y or Z Tolerance	043Y	\$1.50
Gauge Pin Set per Pin--Class X Tolerance (.001mm or .000040 inch)	043X	\$1.60
Gauge Block Set per Block up to 150mm or 6 inch, Grade 1,2,3,A,B	044a	\$2.50
Shop Grade	044b	\$2.30
Gauge Block over 6 inch (\$2.50 plus \$1.00 per inch over 6 inches)	044c	\$2.50 + length
Dip Seal per item	045	\$1.30
Gage Block End Set	046	\$5.25 /pc
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Miscellaneous Inspection & Tool Room Items

	Code	Price	
Precision Parallel (each)	050	\$15.20	
1-2-3 Block or 2-3-4 Block (each)	051	\$7.60	
Angle Blocks (per pc)	052	\$10.15	
Squares (each)			
Steel	53a	\$15.20	
Granite	053b	\$29.85	
Combo	053c	\$22.75	
Multi-Weld Gage	053d	\$34.45	
Precision Balls	054	\$10.10	
Ballbars	054A	\$26.00	
Vee Blocks (each)	055	\$27.80	
Precision Measuring Rules (per reading)	056	\$2.55	
Protractors (per reading) (min 4 readings)	057	\$3.85	
Sine bar up to 10 inch	58a	\$31.55	
Over 10 inches	58b	quote	
Feeler or Thickness Gauge (per blade)	059	\$1.95	
Taper Gauge	059A	\$9.20	
Keyway Gauge (per member)	060	\$6.35	
Woodruff Key Gauge (per member) (.005 inch to 4.250 inch)	061	\$15.20	
Screw Pitch Gauge (per member) (Compared to Setting Master = \$1.00 each)	062	\$3.85	
Radius Gauge Sets (per radius)	063	\$2.55	
Telescope Gauges	064	\$2.55	
Weight (0.1 g to 1000 lb.)	065	\$10.20	
Reset/Adjust	065A	\$35.90	
Rulers (steel) up to 60" (2 readings per scale on rule)	66a	\$3.85	Per reading
Over 60 inches	66b	quote	
Force Gauge (Repair cost extra = parts plus labor)	067	\$64.00	
Tape Measures (0 to 60 ft)	68a	\$26.55	
Over 60 Feet	68b	\$40.20	
Cadalac Type Gauges (Height Masters) 0 to 12 inch	069	\$45.50	
12 to 18 inch	070	\$70.70	
Stop Watches	072	\$9.55 each	
Profilometer	075	\$40.60	
Reset/Adjust		\$81.15	
Profilometer Pocket & Surf Master	075A	\$20.70	
Coating Thickness Gauge & Gauss Meter	076	\$40.45	
Masters (per pc)	077	\$2.55	
Hardness Tester (2 hr min)	078	quote	
Techometer	116	\$60.65	
Reset	318	\$106.55	

Tension Meter Transducer	117	\$75.75
Hydrometer Boume	118	\$15.35
New Sticker and Certs	Misc	\$2.90
Tensile Testing	025	\$23.35
Surface Plates (at customers factory)	191	\$10.00 per sq ft
Surface Plates (at QSGM)	192	\$60.00
Hook Certification (per hook)	139	\$30.35
Bench Centers (per center)	140	\$81.00

Snap Type Gauges

	Code	Price	Code	Price
Adjustable 'C' Snap	071	\$15.25	271	\$18.95
Solid Snap	072	\$7.65	272	\$9.00
Reef Type Snap	073	\$11.00	273	\$15.90
Bar Snap (solid or adj.)	074	\$15.25	274	\$18.95

Above prices are for calibration only. Multiply prices by a factor of 3.5 for gauges which require reset &/or reground.
Repair Hourly Rate is a minimum of \$35.20 plus parts or (hours x hr. rate) plus parts.

Miscellaneous Special Design Gauges

	Calibration Only			Adjust and Calibrate	
	Code	Price		Code	Price
True Position Locator/Hole Location	079	\$28.25			
Level or Smart Level	1380	\$22.15	Depth Master	393	\$12.65
B & S Bushing or Spud	081	\$9.50	Flush Pin to Datum Dia.	394	\$40.40
Taper Arbor	082	\$10.85	Flush Pin to Shoulder or	395	\$40.40
Splined Arbor	083	\$37.90	Barrel Gage (Straightness) Groove	396	\$28.40
Spec. Design Arbor	084	\$15.25	Barrel Gage (Concentricity)	397	\$28.40
Angle Gauge (Design)	085	\$15.25	Ring Gage (pass through)	398	\$10.80
Flatness Gauge	086	\$9.55	Ring Gage (Hi-Lo)	399	\$19.00
Squareness Gauge	087	\$15.25	Optical chart	400	Hr X rate
Base Circle	088	\$15.25	Relation (Gage to part)	401	Hr X rate
Template (Form Gauge)	089	Hr X rate	Relation (Part to gauge)	402	Hr X rate
Distance & Length	090	Hr X rate	Pi tape (0-36 inch)	413A	\$25.34
Electronic Scales	092	Quote	(36-72 inch)	413B	\$31.55
Flush Pin Depth (per pin)	093	\$11.00	(72-144 inch)	413C	\$51.75
Viscosity Flow Cup	094	\$41.40	Position probes	414	\$75.75
Load Cell	095	\$101.00			
UltraSound thickness tester	096	\$60.00			

NOTE: Hourly rate is \$62.00. Time includes preparation, set-up, measure and report.
Repair Hourly Rate is a minimum of \$62.00 plus parts or (hours x hr. rate) + parts.

Micrometers, Calipers and Height Gauges

	Calibration Only			Adjust and Calibrate	
	Code	Price		Code	Price
Micrometer (OD or Blade)	103	\$13.90	(add \$1.00 per 25mm over 300mm/12")	303	\$46.80
Thread Micrometer	104	\$15.15	(plus \$2.00 each additional anvil)	304	\$46.80
Inside Micrometer	105	\$15.15	(plus \$1.00 each additional extension	305	\$46.80
Tri-mic/TriBore	106	\$15.15	(with check ring supplied)	306	\$46.80
Disc or Ball Mic	107	\$15.15		307	\$46.80
Depth Micrometer	108	\$15.15	(plus \$1.00 each additional extension)	308	\$46.80
Caliper (Dial or Digital)	109	\$13.90	(add \$1.00 per 25mm over 300mm/12")	309	\$46.80
Dial or Digital Depth	110	\$15.15	(add \$1.00 per 25mm over 300mm/12")	310	\$46.80
Dial or Digital Height	111	\$18.94	(add \$1.00 per 25mm over 300mm/12")	311	\$46.80
Micrometer Head	112	\$22.75		312	\$46.80
Groove Micrometer	113	\$13.80			
Contor Amplifier	114	\$17.70			
Contor Extensions	115	\$11.55			
Bore Stems	136	\$8.85			

Note: 1) If replacement parts are needed, the price will be adjust price accordingly.

2) Excessive cleaning and part modification will be at the hourly rate.

Dial and Digital Indicators and Gauges

	Calibration Only		Adjust and Calibrate	
	Code	Price	Code	Price
Durometer	120	\$35.40	320	\$48.20
Dial Bore Gauge	121	\$19.00	321	\$41.45
Dial Snap Gauge (Less parallelism ck)	122a	\$19.00	322a	\$41.40
Dial Snap Gauge (w/ parallelism ck)	122b	\$23.40	322b	\$56.80
Dial Depth Gauge	123	\$18.95	323	\$41.40
Dial Groove Diameter	124	\$18.95	324	\$37.90
Dial Digital Indicator	125	\$15.20	325	\$40.45
Last Word type Indicator	126	\$18.95	326	\$45.55
Torque Wrench	127	\$18.00	327	\$46.00
Torque Watches	127B	\$29.90		
Torque Wrench Tester	128	\$101.00	328	\$157.75
Torque Multiplier	129	\$38.25	329	\$63.00
Torque Impact Gun	137	\$53.00		
Transducer	130	\$75.75	330	\$157.75
Pressure & Vacuum Gauges	131	\$35.40	331	\$56.20
Gauss Meters	132	\$32.90	332	\$40.45
Optical Flats	133	\$36.75		
Champher Gauge (0-2")	135	\$18.95	335	\$53.80
Champher Gauge (2-4")	135A	\$28.20	335A	\$70.35
Hydrometer	143	\$31.55		
Gloss Meter (60 degree only)	076C	\$31.55		
Faro Arm calibration (no adjustments)	144	\$146.00		

Note: 1) If replacement parts are needed, the price will be adjust price accordingly.

2) Excessive cleaning and part modification will be at the hourly rate.

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Temperature and Electronic Gauge Calibration

	Code	Price
Adjustment	EE-##A	Hourly
Ammeter (up to 20A)	EE-34	\$48.00
Capacitance Meters - up to 110mf	EE-21	\$58.00
Clamp Meters	EE-20	\$50.00
Data Acquisition Units	EE-28	\$92.00
Databucket	EE-28	\$92.00
Dataloggers	EE-23	\$112.00
Decade Resistor Box	EE-02	\$48.00
Doric Trendicator	EE-32	\$112.00
Electronic Gauges, Special Equipment (Profilometer)	EE-01	\$39.00/ \$77.00 Adj
Hygrometer (Humidity Only - if w/temp add thermometer only)	EE-24	\$48.00 \$37.00/
Manometer	EE-131	\$60.00 Adj
Megohmmeter	EE-30	\$49.00
Mobile Corder (6 CH)	EE-29	\$260.00
Multimeter - Benchtop	EE-36	\$73.00
Multimeter - Handheld	EE-04	\$48.00
Oscilloscopes - up to 300 MHz	EE-05	\$94.00
Ovens	EE-15	Hourly
Power Supply (1000V, 10A)	EE-35	\$48.00
Probe, Surface (if w/thermometer add costs)	EE-22	\$38.00
Probe, T/C (if w/thermometer add costs)	EE-12	\$38.00
Resistance Standard	EE-26	\$8.50
Scopemeter - up to 300 MHz	EE-06	\$58.00
Temperature & Humidity Chart Recorders	EE-13	\$54.00
Temperature Controller, RTD	EE-27	\$59.00
Temperature Controller, T/C	EE-07	\$50.00/ \$62.00 Adj
Thermometer, Bi-Metal	EE-09	\$39.00
Thermometer, Glass	EE-11	\$48.00
Thermometer, Infrared/Non-Contact	EE-10	\$78.00
Thermometer, Infrared/Non-Contact w/T/C	EE-31	\$94.00
Thermometer, RTD Only	EE-18	\$48.00
Thermometer, RTD w/Probe	EE-25	\$86.00
Thermometer, Thermocouple (T/C - all types, if w/probes add costs)	EE-14	\$48.00
Therm-o-seal (Band Sealer)	EE-08	\$146.00

Timer, Digital	EE-19	\$10.00
Volt OHM Meter (VOM)	EE-16	\$48.00
Voltmeter - up to 1000V	EE-17	\$48.00
Wrist/Foot Strap Tester	EE-33	\$48.00
Calibrator (handheld)	EE-37	\$94.00
Process Meter	EE-38	\$57.00

Measuring Machine Calibration, CMM, Optical comparator, etc.

	<u>Code</u>	<u>Price</u>
CMM Check, First Article, Tooling, etc. (per hour)	CMM-1	\$62.00
CMM Check, Capability Study, Multiple Same Part No.	CMM-2	\$62.00
IF WEEKEND TIME REQUIRED to complete project, Multiply price X 1.5		\$93.00
IF SUNDAY TIME REQUIRED to complete project, Multiply price X 2.0		\$124.00
DATA ANALYSIS REQUIRED, OR STATISTICAL ANALYSIS if needed		\$84.25

Gauge R &R

Quad State Gauging and Measurement Inc. will perform Gauge R & R studies using the customer's gauges and parts.
Please contact us at (319) 277-4429 or via e-mail at Sales@QuadState.net for a personalized quote.

Miscellaneous Services and Costs

Extra-ordinary cleaning required = hourly rate X 1.5	Approx	\$93.00
Lettering or etching (per letter) (Unless new device purchased thru QSGM, then free)		\$.15
Parts and specialty gages without prints (Additional charge/gauge)		\$18.95
Tie up time (reserved time), tardy, or no show		1/2 rate X hours
Unannounced customer walk-ins		2 X hourly rate
Pick up and delivery may be available to certain locations on request.		\$42.45
		1/2 of calibration rate
Minimum Charge (if asked to quote repair and customer rejects quote)		
Parts and gauges not claimed at Quad State past 30 days of second notification of work completed will be scrapped		

In House Calibration --At-Customer-Site Calibration:

	<u>Code</u>	<u>Price</u>
Mileage (per mile if ground travel) per mile	M-001	\$.50 per mile
Travel Time (per hour/person)	T-001	\$25.00
Calibration Rate -(weekend rate = per hour rate X 1.5 plus expenses plus overnight stay cost.)	OC-001	\$62.00
Minimum charge		\$125.00
Fuel Surcharge (\$4.00 to \$15.00 depending on current price of gas)		varies

Certificates

Our prices include long form certifications, verification of traceability to NIST and compliance with applicable standards. Customer calibration records are computer generated, stored and backed up daily.

We will store records for 5 yrs. if a current customer. If not a current customer records will be destroyed immediately.

If longer storage is required, we will ship the records

to the customer or we can continue to store them at the following rates:

<u>Time</u>	<u>Price</u>
0 to 6 Mo.	\$12.65
6 Mo. to 1 Year	\$31.55
1 to 3 years	\$44.20

If gauge(s) are out of specification and the customer requests to accept the gauge then a \$1.50 charge per request will be assessed to reissue stickers, change records, and mail to the customer.

PLEASE NOTE: IF QSGM DOES NOT HEAR FROM THE CUSTOMER IN A MONTH AFTER YOU WERE SENT A REMINDER, YOUR RECORDS WILL BE DISCARDED. FIVE YEARS IS THE MAXIMUM FOR STORAGE OF ANY RECORDS.

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Recalibration Notification and GAGETRAK Software

For those customers who choose to be notified when gauges and instruments are due for calibration, QSGM offers "due for calibration" notification at **no charge**. This notification can be delivered via e-mail.

We offer **CYBERMETRICS GAGETRAK** software to customers who wish to have computer access to gage calibration data and calibration due listings at our cost plus equipment cost. **CYBERMETRICS GAGETRAK** also allows the user to input gauge R&R data and view the results.

Please contact for a personalized quote at (319) 277-4429 or via e-mail at Sales@QuadState.net

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PLEASE NOTE: THESE PRICES MAY CHANGE AT ANY TIME WITHOUT PRIOR NOTICE.