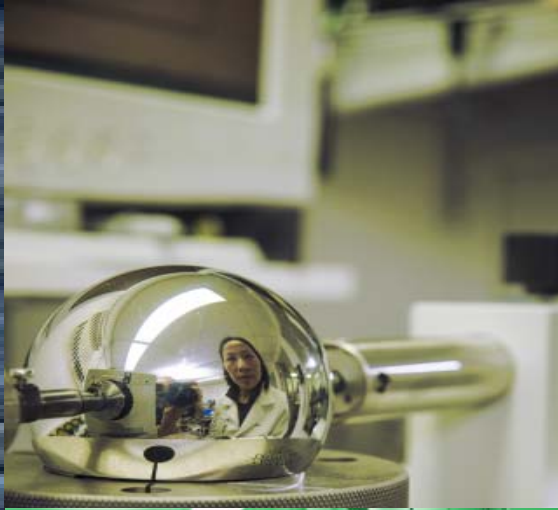


Meeting *Your* Metrology Needs



A.A. Jansson, Inc.
Precision Measuring Service and Equipment

Our Place in History



*Home of the First Gage Block
Eskilstuna, Sweden*

C.E. Johansson, “Father of Measurement”, of Eskilstuna, Sweden, devoted many years of labor and research to reducing the inaccuracies of the Mid 1800s measuring devices such as the micrometer and the caliper.

In 1897 he produced his first set of precision gage blocks, guaranteed to have an error of less than $\pm .000016$ ” per inch of length. Fourteen years later, with a small team of workers, gage blocks were ready to be produced in commercial quantities.

Among those first developers working beside C.E. Johansson was Sven Lundquist (pictured above, farthest to the right). In 1923 Sven brought his family and knowledge to Dearborn, Michigan, to manage the Ford Motor Johansson Gage Block Division.

In 1961 Sven’s sons, Arne and Eric Lundquist, formed A.A. Jansson, Inc. Over the years our company has grown and diversified within the measuring field. Today we carry a complete line of measuring products as well as perform numerous types of calibration services.

From 1971 to 1999 Arne’s son, Karl Lundquist, served as president of A.A. Jansson. During that time, the company evolved into a full service and sales company employing up to 48 employees.

In keeping with the family tradition, A.A. Jansson is currently owned and operated by the Great-Grandchildren of Sven Lundquist, Eric and Alison Lundquist. Their family commitment to quality ensures you the best possible service for your measuring needs and instruments.



Alison M. Lundquist, Eric V. Lundquist

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GAGE BLOCK SETS - ENGLISH (GRADE 1,00 + 30%)

DESCRIPTION	PRICE
119 pc.	\$ 476.00
88 pc.	352.00
81 pc.	324.00
36 pc.	144.00
34 pc.	136.00
28 pc. "Thin Set"	112.00
8 pc. "Long Set"	280.00

GAGE BLOCK SETS - METRIC (GRADE 1,00 + 30%)

DESCRIPTION	PRICE
112 pc.	\$ 448.00
103 pc.	412.00
88 pc.	352.00
87 pc.	348.00
45 pc.	180.00
17 pc. "Thin Set"	68.00
8 pc. "Long Set"	280.00

INDIVIDUAL BLOCKS - ENGLISH (GRADE 1,00 + 30%)

DESCRIPTION	PRICE
.010" - .049"	\$ 4.00 each
.050" - 4.000"	4.00 each
5.000" - 20.000"	35.00 each
Accessories	4.50 each
Special Sizes (Up to 4.000")	15.00 each
Special Sizes (Over 4.000")	56.00 each

INDIVIDUAL BLOCKS - METRIC (GRADE 1,00 + 30%)

DESCRIPTION	PRICE
0.3mm - 0.49mm	\$ 4.00 each
0.5mm - 100mm	4.00 each
125mm - 500mm	35.00 each
Accessories	4.50 each
Special Sizes (Up to 100mm)	15.00 each
Special Sizes (Over 100mm)	56.00 each

MISCELLANEOUS

DESCRIPTION	PRICE
Serialization set-up charge (per serial number)	\$ 5.00 lot
Serialization of blocks (w/same serial number)	3.50 each
Additional certificates	20.00
Rush charge (5 working days)	30% additional
Minimum charge per order	50.00 per order

Set prices are based on individual prices.

To determine the calibration charge for other sized sets, multiply the number of pieces in the set, based on size, by the individual prices.

For grade "1" blocks - add 30% to the listed prices. Grade 0.5 gage blocks will be quoted.



A.A. Jansson's gage block calibration service is A2LA

accredited. We have also successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01.

GAGE BLOCKS

Overview



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

Overview of Gage Blocks Available

This page gives a brief description and availability of the gage blocks A.A. Jansson offers. **Please call 1-800-JANSSON for current prices.**

Conformance

Our gage blocks are certified and guaranteed to meet or exceed requirements of current specifications.

Additional services

We can perform flat lapping of parts to your specifications, lap comparator anvils and parallels, and manufacture squareness masters and other precision parts to close tolerances.

Special Sizes

A.A. Jansson is uniquely qualified in the manufacture of special size gage blocks. We will manufacture gage blocks to your blueprints or special requests. Materials available include; steel, chrome plate, ceramic, chrome carbide, and tungsten carbide. Prices are quoted upon request.

STEEL

Our steel gage blocks are manufactured by the finest manufacturer of steel blocks in the United States and Japan. Superior craftsmanship guarantees accuracy, flatness, parallelism, dimensional stability, and excellent surface finish for exceptional wringability. Made from specially selected 52100 Chromium Alloy steel and heat treated to produce a 66 Rockwell C hardness (resulting in maximum resistance to wear), these gage blocks assure a superior wear life and linear co-efficiency of expansion nearly identical to parts made of steel.



CHROMIUM CARBIDE

Chromium carbide gage blocks are considered by many, the finest available. They outwear regular steel at least 30 to 1, they will not corrode, and are very stable and accurate. Chromium carbide blocks have exceptional "wringing" capability and have a Rockwell C hardness of 71-73, with an unusually fine, hard grain structure which gives them exceptional resistance to wear and abrasion.

TUNGSTEN CARBIDE

Our tungsten carbide gage blocks are recognized around the world for their accuracy, wringability, and durability. The excellent surface finish results in long wear life. Quality is consistent through all grades, conforming to or exceeding U.S. Federal specifications.

CERAMIC

Ceramic gage blocks are the latest innovation in gage block technology. This durable material outwears most other types of materials. In addition to being corrosion resistant and abrasion resistant, their thermal expansion co-efficient is similar to that of steel.

CHROME PLATED

Chrome plated gage blocks offer many advantages over steel. They are chrome plated on all sides, resulting in a totally rust resistant gage block. These gage blocks outwear hardened steel by 5 to 1. In addition, chrome plated gage blocks are virtually unaffected by surrounding atmospheric conditions.



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

**GAGE
BLOCKS**

Economy

Economy Gage Blocks

When you need quality gage blocks at an affordable price, turn to AAJ Economy gage blocks. These blocks are manufactured from the finest quality materials available. Skilled technicians ensure that quality workmanship is the main element of each gage block. This guarantees you the highest quality in accuracy, flatness, squareness, and parallelism. These sets also have an excellent finish appearance and wringing characteristics as verified by leading testing laboratories.

Certified sets include a Certificate of Calibration traceable to the National Institute of Standards and Technology (NIST). This certificate will list each nominal size and its deviation. Conformance sets include a Certificate of Accuracy stating that all blocks are within $\pm .000050$ " of the nominal size.



The grade "B" set is an ideal economy set for your tool room.

The Real Thing!

Don't be fooled by supply houses offering economy sets with outdated certification or certification from non-accredited sources.

Material available

Steel
Tungsten Carbide
Ceramic

Grades available

2, 3, & B

Measurement available

English
Metric (Quoted)



Calibration

**Precision Instrument
Calibration**

Our highly skilled technicians ensure that your precision instruments receive the individual high caliber service necessary to meet the quality requirements of modern manufacturing industries. Every instrument is thoroughly cleaned, calibrated, and repaired according to the highest of quality standards.



A.A. Jansson has successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Calibrations are also traceable to NIST and are performed in accordance with ISO/IEC 17025, ANSI/NCSL Z540-1..

Repair charges are quoted upon evaluation of instrument.

DESCRIPTION		PRICE
ANGLE LEAFS		10.00
ANGLE BLOCKS		
SINGLE ANGLE		12.50
COMBINATION ANGLE(30°,60°,90° & 45°,45°,90°)		35.00
ANGLE PLATES (GRANITE AND STEEL)		
Up to 12" Up to 300mm		45.00
24" 600mm		85.00
Over 24" Over 600mm		125.00
ANVILS (LAPPING AND CALIBRATION)		
Lapped to 1 Light Band		85.00 side
Lapped to 1/2 Light Band		105.00 side
BALL BAR		
up to 12" (spheres not detachable)		265.00
up to 24" (if spheres are detachable)		265.00
Bore Gages-Indicators Only		
Bore Gage with One head		40.00
Each additional head		50.00
Each additional head		20.00
Bore Gages (up to 8")		
Tri-Mic, Intramik, Hole Test, 2point, 3point		50.00
(one head included)		
Each Additional Heads		20.00
BORE SETTING GAGES (SUNNEN)		Quote
CALIPERS (VERNIER, DIAL, & DIGITAL)		
6" 150mm		35.00
8" 200mm		40.00
12" 300mm		45.00
18" 450mm		50.00
20" 500mm		55.00
24" 600mm		65.00
30" 750mm		75.00
36" 900mm		85.00
40" 1000mm		95.00
48" 1200mm		105.00
60" 1500mm		155.00
80" 2030mm		180.00



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

PRECISION
INSTRUMENT

Calibration

DESCRIPTION	PRICE
CALIPER CHECKER (PER STEP)	15.00
CALIPER GAGE	50.00
CHAMFER CHECK GAGE	45.00
COMBINATION SQUARE	55.00
CONTRACER MASTER	85.00
CONCENTRICITY GAGE	85.00
CYLINDER SQUARES	
0-6" 0-150mm	65.00
6-12" 150-300mm	75.00
12-18" 300-450mm	95.00
18-24" 450-600mm (Not Accredited)	110.00
COAXIAL INDICATORS	65.00
DIAL / DIGITAL INDICATORS	
Up to 0.5" Up to 12.5mm	35.00
1.0" 25mm	40.00
2.0" 50mm	45.00
3.0" 75mm	50.00
4.0" 100mm	55.00
Add \$5 each additional Inch up to 12"	
DIAL MAHR MILIMESS/SUPRAMESS	65.00
DIAL INDICATOR CALIBRATORS	
Federal, Starrett, & Mitutoyo	125.00
DEPTH GAGES (VERNIER, DIAL, & DIGITAL)	
6" 150mm	35.00
8" 200mm	40.00
12" 300mm	45.00
24" 600mm	50.00
40" 1000mm	60.00
FEELER / THICKNESS GAGES	3.75 part
GAGE BALLS (TOOLING & PRECISION)	
Below Grade 25	10.00 each
Grade 25 and Above	10.00
CMM Calibration Spheres (includes sphericity & roundness)	150.00
GAGE BLOCKS	
Standard Sizes All Grades (except 1, .5, 00)	
.010" - 4.000"	4.00 block
5.000" - 20.000"	35.00 each
Grade 1,00	ADD 30%
Grade 0.5	Quoted
Accessories	4.50
Special Sizes (Up to 4.000")	15.00 each
Special Sizes (Over 4.000")	56.00 each
GEAR MEASURING WIRES	19.95
GLASS MASTER AND GLASS RETICULES	Quoted
HEIGHT GAGES (HIGH ACCURACY) ‡	
24" 600mm	296.00
36" 900mm	395.00
(\$Scriber and Clamp must be sent with gage)	

**Long Form Certification*
Gages are checked at each end and at the center on the 0° axis and 90° axis. Six readings are taken and all are reported. Each gage will have an individual certificate of calibration.

***Short Form Certification*
Gages are checked at each end and at the center on 1 axis (3 readings). The median value is reported on the certificate of calibration.

† Customer must supply set plug with ring for calibration.

‡ Customer must supply scriber and clamp with gage for calibration.



Calibration



A.A. Jansson has successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Calibrations are also traceable to NIST and are performed in accordance with ISO/IEC 17025, ANSI/NCSL Z540-1..

Repair charges are quoted upon evaluation of instrument.

DESCRIPTION		PRICE
HEIGHT GAGES (VERNIER, DIAL, & DIGITAL)‡		
6" - 12"	150-300mm	70.00
18"	450mm	100.00
24"	600mm	130.00
40"	1000mm	200.00
<i>(‡Scriber and Clamp must be sent with gage)</i>		
HEIGHT MASTER		
12"	300mm	175.00
18"	450mm	245.00
24"	600mm	350.00
Over 24"	Over 600mm	Quoted
HOLE MICROMETER (2-POINT, 3-POINT) UP TO 3.5"		
Main Unit		50.00
Inclinometer		80.00
Jo-Plug/Threaded Hole Location Plug		20.00
KALMASTER		
6"		180.00
12"		360.00
LEVELS		
General Purpose		35.00
Precision		65.00
Electronic		175.00
MICRO HEIGHT STANDARD		85.00
MICROMETERS, DEPTH (MECHANICAL & DIGITAL)		
Up to 6 Rods		60.00
Up to 12 Rods		85.00
MICROMETERS, INSIDE (0-22", 0-560MM)		
Micrometer Head		50.00
Per Rod		20.00
Per Spacer		5.00
MICROMETERS, INTERCHANGEABLE ANVIL		
0-6"	0-150mm	60.00
6-12"	150-300mm	65.00
12-18"	300-400mm	70.00
18-24"	450-600mm	80.00
24-30"	600-700mm	90.00
30-36"	750-900mm	100.00
36-42"	900-1050mm	110.00
Special Spindle/Anvil Combinations		Quoted
MICROMETER, STD. OUTSIDE (MECH. & DIGITAL)		
0-4"	1-100mm	40.00
5-12"	125-300mm	45.00
13-24"	325-600mm	50.00
Over 24"	Over 600mm	Quoted
MICROMETER END STANDARDS		
1-42"	25-1,067mm (per inch/5.4mm)	1.95per in/25mm
43- 72"	1,067-1,829mm (per inch/5.4mm)	3.00per in/25mm
MICROMETER HEADS		
0-1 Inch		85.00
0-2 Inch		170.00
MIKROKATORS (CEJ)		275.00



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

PRECISION
INSTRUMENT

Calibration

DESCRIPTION	PRICE
MICROSCOPE	
Image Only Style	85.00
Image and Dimensional Style	155.00
Software with FOV Measurement Style	250.00
MU CHECKER	
	85.00
PARALLELS	
Up to 12" Up to 300mm	25.00
24" 600mm	35.00
36" 900mm	55.00
48" 1200mm	75.00
PARALLELS GAGE BLOCK STYLE	
1 Light Band	85.00 pair
1/2 Light Band	105.00 pair
PLUG / PIN GAGES (PLAIN)	
Class ZZ, Z (**Short Form Cert)	1.50
All Other Classes (ADD 50% FOR CLASS XXX)	
Smaller than .020" (*Long Form Cert)	41.00
.020-2.250" 0.5-57.15mm	20.50
2.251-4.250" 57.15-107.95mm	27.00
4.251-6.250" 107.96-158.75mm	35.00
6.251-9.000" 158.76-228.6mm	45.00
TAPERED	
Up to 1½" Up to 40.0mm	Quoted
Over 1½ - 3.0" Over 40.0 - 75.0mm	Quoted
PLUG GAGES (THREADED)*	
Up to 1½" Up to 40.0mm	27.00
Over 1½ - 3.0" Over 40.0 - 75.0mm	30.00
Over 3.0-6.0" Over 75.0-150.0mm	32.00
TAPERED	
Up to 6.0" Up to 150.0mm	Quoted
STAR	
	Quoted
PROTRACTORS	
Bevel	65.00
Digital	85.00
RADIUS GAGES (PER LEAF)	
	7.00 part
RING GAGES (PLAIN)* (ADD 50% FOR CLASS XXX)	
.0500 - 0.1000" 1.270 - 2.540 mm	37.00
.1001 - 2.0010" 2.541 - 51.082 mm	31.00
2.0011 - 5.5100" 51.083 - 139.954 mm	36.00
5.5101 - 11.0000" 139.955 - 279.400 mm	47.00
11.0001 - 18.0000" 279.401 - 457.200 mm	65.00
TAPERED (PLAIN)	
All Classes (ADD 50% FOR CLASS XXX)	
Up to 1½" Up to 40.0mm	Quoted
Over 1½ - 3.0" Over 40.0 - 75.0mm	Quoted
RING GAGES (THREADED)*	
Up to 1¼" (SHORT FORM CERT) Up to 35.0mm	Quoted
Over 1¼-1½" Over 35.0 - 40.0mm	Quoted
†Over 1½-3.0" Over 40.0-75.0mm	Quoted
†Over 3.0-6.0" Over 75.0-150.0mm	Quoted

**Long Form Certification*
Gages are checked at each end and at the center on the 0° axis and 90° axis. Six readings are taken and all are reported. Each gage will have an individual certificate of calibration.

***Short Form Certification*
Gages are checked at each end and at the center on 1 axis (3 readings). The median value is reported on the certificate of calibration.

† Customer must supply set plug with ring for calibration.

‡ Customer must supply scriber and clamp with gage for calibration.



DESCRIPTION	PRICE 1-2
RISER BLOCKS	
6" 150mm	\$ 65.00
12" 300mm	65.00
24" 600mm	65.00
ROUNDNESS MASTER	85.00
RULERS (PRICE PER SCALE, PER FT/300MM)	22.50perft/300mm
SETTING DISC	
ALL CLASSES (ADD 50% FOR CLASS XXX)	
.020 - 2.250" 0.5 - 57.15mm	20.50
2.251 - 4.250" 57.15 - 107.95mm	27.00
4.251 - 6.250" 107.96 - 158.75mm	35.00
6.251 - 9.000" 158.76 - 228.6mm	45.00
Over 9.0000"-18.0000" 158.77-457.20mm	50.00
SHIMS	10.00
SINE BARS	
Up to 20" Up to 150mm	65.00
SINE PLATES SINGLE	100.00
SINE PLATES COMPOUND	200.00
SNAP GAGES	30.00
Go NoGo Snap Gage (2 sizes)	50.00
Single Size	25.00
SQUARE / BLADE & MASTER PRECISION	
Up to 6" Up to 150mm	45.00
12" 300mm	55.00
18" 450mm	65.00
Mapping of Face Per Inch	1.00
STAGE MICROMETER (PER SCALE)	85.00
STEP BLOCK 1-2-3	25.00 each
STRAIGHT EDGE	
Up to 36"Up to 900mm	90.00
SURFACE FINISH ROUGHNESS SPECIMEN(PER PARAMETER)	30.00
SURFACE ROUGHNESS GAGE	95.00
SURVEILLANCE MASTERS (PER STEP)	15.00 Step
STEP/REFERENCE BARS (PER STEP)	15.00 Step
Up to 60" Up to 600mm	15.00 Step
Tape Measures	
Up to 15'	65.00
Up to 25'	125.00
30'	150.00
Thickness Gage (Dial and Digital)	50.00
Thread Pitch Gages (Per Pitch)	5.00
THREAD WIRES	
Working (60°) (set of 3)	21.00
Working with Holders (60°)	25.00
Master (60°) (single wire)	40.00



CALIBRATION & REPAIR INFORMATION

MINIMUM CHARGE / BENCH CHARGE

A minimum charge of \$50.00 will be charged per order. A bench charge may apply to equipment sent for repair. This charge **will be waived** if the customer proceeds with repairs and is **not** charged in addition to the minimum charge.

DELIVERY

Approximate delivery on calibration orders is three weeks. Repair orders may vary depending on the availability of replacement parts.

CALIBRATION COMPLIANCE

Our calibration laboratory has successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Calibrations are also traceable to NIST and are performed in accordance with ISO/IEC 17025, ANSI/NCSL Z540-1.

A.A. Jansson has successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our



Scope of Accreditation, #1182.01. Calibrations are also traceable to NIST and are performed in accordance with ISO/IEC 17025, ANSI/NCSL Z540-1..



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

**WEIGHT
& SCALE**

Calibration

SCALES

DESCRIPTION	PRICE
Up to 50 lbs (22 kg)	
Mechanical	\$ 80.00
Digital	110.00

Set

Specifications:

ASTM Class 1,
1.1, 2, 3, OIML
Class E1, E2, E3,
F1, F2

Individual

Specifications:

ASTM Class 4, 6,
NIST Class F,
OIML Class M1,
M2, M3

SURFACE PLATE

*Calibration &
Resurfacing*



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

Surface Plate Service

A.A. Jansson's Surface Plate Calibration is the most accurate and reliable calibration service available. Our technically advanced, computerized digital electronic levels allow economical, fast, and error-free calculations to be made automatically.

Granite surface plates that are calibrated and found out-of-tolerance may be resurfaced to the grade you desire. All services are performed in your plant and are conveniently scheduled to meet your immediate needs.

CLEANING

Before starting the calibration, our service technician will thoroughly clean your plate, removing any grease, dirt or other foreign substances that may have accumulated. Calibration will be performed for overall flatness and repeat reading tolerances with digital electronic levels and a Rahn Repeat-O-Meter.

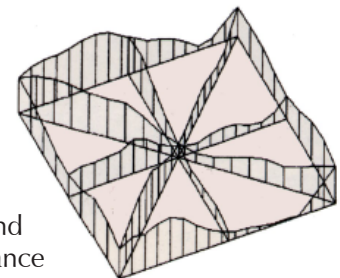


COMPUTERIZED CALIBRATION

The digital electronic level system is the most advanced, accurate, and reliable method available for calibrating surface plates. The electronic levels are interfaced with a laptop computer, allowing quick, error-free, precise measurements. Our technician then enters the value at each measurement point, feeding the information directly into the computer's memory, eliminating error in the recording process. This method of calibration can be performed quickly and accurately, ultimately eliminating needless downtime.

ELECTRONIC ADVANTAGE

Another advantage of the electronic levels is the differential gage heads. They permit high resolution profiling even under conditions where ambient noise, turbulence, and vibration are prevalent. This is not possible with autocollimators or laser alignment tools. When the gage heads are set up for opposite responses to a common motion, the motion is ignored. Thus, any shift in attitude or vibration will not influence the measurement.



RESURFACING OF PLATES

For any granite surface plate found out-of-tolerance, our service technician will resurface the plate using the dry lapping process and fine diamond compound. Steel surface plates found out-of-tolerance can be quoted for rescrapping.

COMPUTER PRINTED RESULTS

Once the calibration is complete, the computer performs an analysis of the data. Within moments, the results are compiled and an 8½" x 11" chart is printed. The printed chart becomes your hard data documentation for total quality management.



*A.A. Jansson's
Surface Plate
Calibration
service is*

A2LA accredited. We have also successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Our service is also traceable to the National Institute of Standards and Technology (NIST), and meet or exceed current specifications.



SURFACE PLATE CALIBRATION & RESURFACING

CALIBRATION	PRICE
Granite Plate Calibration Only*	\$ 8.50 sq ft
Steel Plate Calibration**	8.50 sq ft
CALIBRATION AND RESURFACING	
AA (Laboratory)†	\$ 24.00 sq ft
A (Inspection)†	21.00 sq ft
B (Tool Room)†	19.00 sq ft
Minimum amount per order	\$ 100.00
Minimum charge per plate	65.00
Travel charge	See pg. 22
Per Diem††	140.00

*Calibration charges will be cancelled on any granite surface plate that is resurfaced. Surface plates 2' x 3' and smaller **MUST** be reconditioned.

Steel plates are **only calibrated.

†If the surface plate is out of flat by more than .0005", the resurfacing price will be twice the amount listed above. If the surface plate is out more than .001", resurfacing price will be quoted according to condition. We reserve the right **not** to resurface plates in poor condition.

††Per Diem charge is to cover meals and lodging, if needed, for overnight service calls. Traveling expenses (i.e. airfare, car rental) are charged at cost.

Having difficulty clamping parts and fixtures to your work surface?

A.A. Jansson will install threaded inserts in your granite surface plate to your specifications. You can determine the number, size, and pattern of the inserts that are necessary to assist your inspector in their measurement applications.

THREADED INSERTS

DESCRIPTION	PRICE
Granite Surface Plates	QUOTED
CMM Plates	QUOTED

SURFACE PLATE CLEANER

Let our specially formulated "Surf-Clean" clean your surface plate to its top working condition. This unique solvent deep cleans your surface plate, leaving the working surface smooth and friction-free. Surf-Clean will reduce wear on both your surface plate and the instruments used on it. Surf-Clean meets current specifications. MSDS is available upon request.



SURFACE PLATE CLEANER

DESCRIPTION	PRICE
"SURF-CLEAN" SURFACE PLATE CLEANER	
J-603 16 oz. Plastic bottle w/applicator cap	\$ 9.00
J-613 Case of 12 - 16 oz. Plastic bottles w/applicator cap	69.50

Material safety data sheets are available upon request.

TOTAL FLATNESS TOLERANCE IN MICROINCHES

RECTANGULAR SURFACE PLATES

WIDTH	LENGTH	GRADE AA	GRADE A	GRADE B
12	12	50	100	200
12	18	50	100	200
18	18	50	100	200
18	24	75	150	300
24	24	75	150	300
24	36	100	200	400
24	48	150	300	600
36	36	150	300	600
36	48	200	400	800
36	60	250	500	1000
36	72	300	600	1200
48	48	200	400	800
48	60	300	600	1200
48	72	350	700	1400
48	96	500	1000	2000
48	120	700	1400	2800
60	120	750	1500	3000
72	96	600	1200	2400
72	144	1100	2200	4400

FLATNESS TOLERANCE FOR UNLISTED SURFACE PLATE SIZES

CAN BE OBTAINED BY FOLLOWING THIS FORMULA:

$$\text{Total flatness tolerance in microinches} = 40 + \frac{D^2}{25}$$



Optical Comparator Service

A.A. Jansson has a fine team of technical service technicians available to service your optical comparators. Our service technicians are well trained and qualified to perform maintenance, repair, or upgrading on all makes and models, regardless of age or condition. A regular maintenance schedule can be set up to keep your equipment in excellent operating condition at all times.



Let our expert service technicians assist you in designing a regular maintenance contract that will best meet your needs and keep your optical comparator in top working condition.

UPGRADES AND RETROFITS

Improve the positioning, mechanical, and magnification accuracy of your existing optical comparator while increasing throughput and efficiency. The mechanical structures of certain older optical comparators are more stable and accurate than newer models. Yesterday's comparators, combined with today's electronics, mean unparalleled accuracy and throughput with low investment.

Today's readouts and PC based software systems can perform complex geometric calculations that previously could only be performed by higher priced CMM's.

If complexity is not an issue, basic readouts can compensate for machine error and perform basic measurements with ease.

A.A. Jansson offers a complete line of comparator products and accessories. Choose from a large selection of **new or used** fixtures, lenses, linear encoders, readouts, PC based software systems, and fiber optic surface illumination units.



A.A. Jansson's
Optical
Comparator
Calibration

service is A2LA accredited. We have also successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Our service is also traceable to the National Institute of Standards and Technology (NIST), and meet or exceed current specifications.

WE SPECIALIZE IN COMPLETE OPTICAL COMPARATOR SERVICE

- Cleaning and Maintenance
- Electronic Troubleshooting
- Optical Magnification Calibration
- Internal Electronic Adjustment
- Mechanical and Optical Alignment
- Electrical Operation and Wiring Repair
- Regular Maintenance Schedule Contract
- A2LA Accredited
- Traceable to the National Institute of Standards and Technology (NIST)
- Retrofits for Readouts, Scales and Updated Electronic Displays
- Design and Build Special Fixtures, Overlays and Charts
- Surface Illumination Upgrades for all Makes and Models



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

OPTICAL
COMPARATOR

*Calibration
& Service*

OPTICAL COMPARATOR CALIBRATION, REPAIR, & UPGRADES

CALIBRATION	PRICE
In Plant Time Travel Charge Per Diem†	\$210.00 per machine See pg. 22 \$ 140.00
REPAIR	PRICE
In Plant Time Travel Charge Per Diem†	\$ 95.00 per hour See pg. 22 \$140.00
UPGRADES AND RETROFITS	PRICE
Choose from a large selection of readouts, software, and electronics.	Call for Quote

†Per Diem charge is to cover meals and lodging, if needed, for overnight service calls. Traveling expenses (i.e. airfare, car rental) are charged at cost.

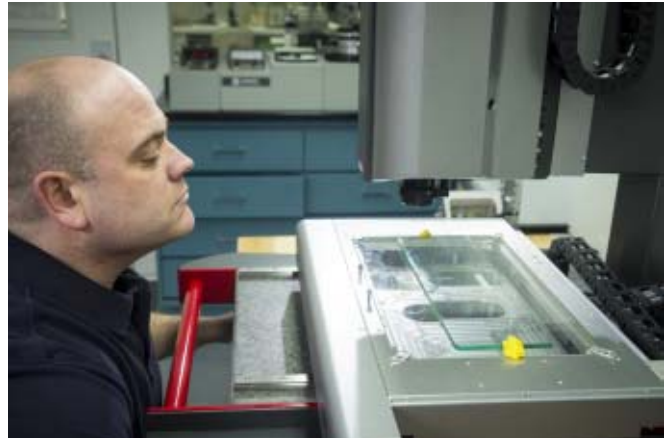
**We carry a
complete line
of Optical
Comparator
Charts,
Fixtures,
Accessories,
and Parts.**

**Keep your optical
comparator in top
working condition**



Vision / Video Service

Vision inspection is one of the largest growing industries in manufacturing. As a continuing pursuit of quality service to our valued customers, we now offer Vision / Video Inspection Calibration. A.A. Jansson's trained technicians will thoroughly inspect and correct (when needed) machine geometry. In addition, the optic train will be checked for Par-Focality, Par-Centricity, Camera Angle, and Field of View accuracy at all necessary magnifications.



Prior to calibration, all machines are thoroughly cleaned and inspected for potentially worn parts. Our technicians will then adjust the machine both mechanically and optically to insure optimum performance. A calibration certificate will be supplied with both before and after measurement results.

As a continuing effort to help our customers find ways to reduce calibration costs, A.A. Jansson cross trains our technicians. All technicians that are capable of providing Vision / Video System Calibration can also provide Optical Comparator Calibration, saving you time and the cost of travel charges for two technicians.

VISION / VIDEO SYSTEM SERVICE

CALIBRATION & REPAIR	PRICE
In Plant Time Travel Charge Per Diem†	\$100.00 per hour See pg. 22 \$ 140.00
UPGRADES AND RETROFITS	PRICE
Choose from a large selection of readouts, software, and electronics.	Call for Quote

†Per Diem charge is to cover meals and lodging, if needed, for overnight service calls. Traveling expenses (i.e. airfare, car rental) are charged at cost.



Hardness Tester Service

Today's manufacturing industry demands dependable materials. In order to determine if the material used in your process is the proper hardness, your equipment needs to be in optimum working condition. A.A. Jansson's highly skilled service technicians can provide calibration and repair to the necessary industry standards that meet your stringent quality requirements. We will calibrate and repair various types of hardness testers.

Prior to calibration, all machines are taken apart and thoroughly cleaned and inspected for worn and broken parts. The necessary parts are replaced (with customer approval). Then each tester is calibrated with a certified test block master at the low, medium, and high ranges. An average of 3 to 6 readings are calculated and documented on a long form certificate. A.A. Jansson's hardness tester service is A2LA accredited. All test block masters are traceable to American Society for Testing and Materials (ASTM) and NIST. Every calibration will be performed in accordance with the requirements of ASTM, ISO 17025, ANSI Z540-1 specifications, and ISO 10012-1. The documentation provided will meet the requirements of ISO 9000 and QS9000.

A.A. Jansson is continually trying to find ways to reduce costs and pass those savings on to our valued customers. By training our technicians on multiple types of equipment we can reduce travel costs. All hardness tester technicians are professionally trained and capable of providing optical comparator calibration and repair. Each technician carries with them a vast inventory of optical comparator and hardness tester parts, allowing us to minimize downtime.



Gage Block Hardness

Ceramic
HV 1350

Chrome Plate
Rockwell C
48 minimum

Chromium Carbide

Steel
Rockwell C
62 minimum

Tungsten Carbide
Rockwell C
70 minimum



A.A.
Jansson's
Hardness
Tester

Calibration service is A2LA accredited. We have also successfully completed A2LA accreditation for calibration of various types of equipment. For a complete listing of the calibrations for which we are accredited, please request a copy of our Scope of Accreditation, #1182.01. Our service is also traceable to the National Institute of Standards and Technology (NIST), and meet or exceed current specification.

HARDNESS TESTER SERVICE

CALIBRATION	PRICE
Rockwell	\$ 200.00 for first scale \$50.00 each additional scale
REPAIR	PRICE
In Plant Time	\$ 95.00 per hour
TRAVEL	PRICE
Travel Charge Per Diem†	See pg. 22 \$ 140.00

†Per Diem charge is to cover meals and lodging, if needed, for overnight service calls. Traveling expenses (i.e. airfare, car rental) are charged at cost.

ON-SITE
SERVICES
*Travel
Charges*



A.A. Jansson, Inc.

Ph (248) 674-4811 · Fax (248) 674-1234

Travel charges may apply to orders where our service technician travels to your plant to perform calibration, repair, or upgrade of your measuring equipment. For overnight travel, a per diem charge may apply to cover the cost of meals and hotel expenses. *(Traveling expenses such as hotel and car rental will be charged at actual cost.)*

Travel charges will be based on round trip hours traveled per Google Maps. Beginning location is calculated from our Waterford office. An hourly rate of \$85.



Organizations and Associations

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)		<i>Where to Buy ANSI Specs:</i>	
11 W. 42nd Street New York, NY 10036	Phone: (212) 642-4900 Internet: www.ansi.org	Global Engineers Documents 15 Inverness Way East Englewood, CO 80112	Phone: (800) 854-7179 Fax: (303) 397-2740 www.global.ihs.com
A2LA (AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION)			
5301 Buckeystown Suite 350 Frederick, MD 21704-8307	Phone: (301) 644-2974 Fax: (301) 662-2974 Internet: www.a2la.org		
ASME (AMERICAN SOCIETY OF MECHANICAL ENGINEERS)		<i>Where to Buy ANSI Specs:</i>	
Three Park Avenue New York, NY 10016-5990	Phone: (212) 591-8500 Fax: (212) 591-8501 www.asme.org	22 Law Drive, Box 2900 Fairfield, NJ 07007-2900 email: infocentral@asme.org	Phone: (800) THE-ASME Fax: (973) 882-1717
AMTMA (AMERICAN MEASURING TOOL MANUFACTURERS ASSOCIATION)			
621 North Sherman Avenue Madison, WI 53704	Phone: (608) 243-8881 Fax: (608) 246-9055 www.amtma.com		
NIST (NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY)			
100 Bureau Drive Gaithersburg, MD 20899-0001	Phone: (301) 975-3058 or (301) 975-6478 Internet: www.nist.gov		



A.A. Jansson, Inc.

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*Information and prices are
subject to change*