

**T**he Quality Sourcebook's Metrology Guide features information on companies that provide products and services specifically related to traditional gaging systems, optical dimensional measurement systems and vision systems. For more information on any of the products or services listed in this section, contact the companies directly. Please be sure to mention you saw their listings in *Quality Digest's* 2000 Quality Sourcebook!

### Metrology Directory

Gage Manufacturers Matrix ..... 62

*This matrix features more than 170 gage manufacturers that produce a wide range of gaging products. Our matrix includes more than 30 different types of gages, including air gages, vacuum gages, hand-held snap gages and laser profiling gages. The matrix includes company name and gage type. For gage types that don't fit within our existing categories, we supply a product description in a text block alongside the manufacturer's name.*

Gage Manufacturers Directory ..... 70

*This directory of gage manufacturers includes the company name, address, phone and fax numbers, Web address, and a brief description of the gage manufacturers services. (Please note that not all companies provided us with descriptions.)*

Optical Dimensional Measurement Systems Matrix ..... 77

*The Optical Dimensional Measurement*

*Systems Matrix contains information on products from nearly 40 companies that manufacture optical comparators, measuring microscopes or video measurement systems. Each product listing includes critical product specifications to help you narrow your choices when selecting an optical or video measurement product or system. For manufacturers that sell product lines that vary only in stage size, screen size and so forth, we combined individual products within a series into one entry and then listed the range of specifications for that entry.*

Optical Dimensional Measurement Systems Directory ..... 81

*The directory includes the company name, address, phone and fax numbers, Web address, and a brief description of the company's products. (Please note that not all companies provided us with descriptions.)*

Vision Systems Directory ..... 82

*The Vision Systems Directory contains information on products from nearly 115 companies that manufacture measuring and detecting microscopes, miniature cameras, high-resolution cameras mounted on CMMs and laser- and X-ray-measurement equipment. Among the most common components of these systems are cameras, frame grabbers, PCs and software. The directory includes the company name, address, phone and fax numbers, Web address, and a brief description of the consultant's services. (Please note that not all companies provided us with descriptions.)*

### Glossary

**A2LA**—American Association for Laboratory Accreditation  
**ACIL**—American Council of Independent Laboratories  
**ANSI**—American National Standards Institute  
**ASME**—American Society of Mechanical Engineers  
**CAD**—computer-aided design  
**CAE**—computer-aided engineering  
**CAM**—computer-aided manufacturing  
**DIN**—Deutsches Institut für Normung (German national standards body)  
**IEEE**—Institute of Electrical and Electronics Engineers  
**NIST**—National Institute of Standards and Technology  
**SCC**—Standards Council of Canada  
**SRM**—standard reference material  
**UL**—Underwriters Laboratories

### Metrology Sourcebook Guide

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# Gage Manufacturers Buyers Guide

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| A.A. Jansson Inc.<br>Ph. 248-674-4811 Fax 248-674-1234<br>www.aa-jansson.com              | Gage blocks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ABBEON CAL Inc.<br>Ph. 805-966-0810 Fax 805-966-7659<br>www.abbeon.com                    |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ABITEC Co.<br>Ph. 216-531-9122 Fax 216-531-1194                                           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ACTCO Metrology Services<br>Ph. 800-382-0393 Fax 814-337-8288                             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ahlegian Precision<br>Ph. 440-352-9921 Fax 440-352-9929<br>www.ahlegian.com               |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Airtronics<br>Ph. 847-695-0911 Fax 847-695-8745                                           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Albion Devices Inc.<br>Ph. 619-792-9585 Fax 619-792-9644<br>www.albiondevices.com         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Calibration Inc.<br>Ph. 815-344-9496 Fax 815-728-8076                            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Measurement Systems<br>Ph. 513-863-7571 Fax 513-863-7646                         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Technica Inc.<br>Ph. 516-741-7140 Fax 516-741-7321                               |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Anderson Industrial<br>Ph. 815-282-0555 Fax 815-282-0563                                  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apco Mossberg Co.<br>Ph. 508-222-0340 Fax 508-222-0126<br>www.apcomossberg.com            |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arnold Gauge Co.<br>Ph. 513-942-4243 Fax 513-942-2877                                     |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Assurance Technologies<br>Ph. 630-231-4800 Fax 630-231-8844                               |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bal-Tec<br>Ph. 323-582-7348 Fax 323-582-0934                                              |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Blanchette Tool & Gage<br>Ph. 973-471-2100 Fax 973-471-2104                               |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boeckeler Instruments Inc.<br>Ph. 520-745-0001 Fax 520-745-0004<br>www.boeckeler.com      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Brown & Sharpe<br>Ph. 800-283-3600 Fax 401-886-2553<br>www.brownandsharpe.com             |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Brunswick Instrument<br>Ph. 847-965-9191 Fax 847-965-9193<br>www.brunswickinstruments.com |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Burton Precision Co. Inc.<br>Ph. 616-784-1756 Fax 616-784-4364<br>burtonprecision.com     |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitec Inc.<br>Ph. 978-772-6033 Fax 978-772-6036                                       |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carbide Probes Inc.<br>Ph. 937-429-9123 Fax 937-429-2103<br>www.carbideprobes.com         |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carl Zeiss IMT Corp.<br>Ph. 612-533-9990 Fax 612-533-0219<br>www.zeiss.com/imt/           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# Gage Manufacturers Buyers Guide

|                                                                                                                                    | Air | Ball | Bore | Centering | Chamber | Depth | Dial Indicator | Electronic | Electronic column | Flush | Force\torque\tension | Gap | Gear | Groove | Handheld dimens. | Hardness | Height | Humidity | Laser profiling | Length of travel | Noncontact thickness | Plug | Pressure | Ring | Roundness | Spline | Strain | Tapped hole location | Thickness | Thread | Vacuum | Custom gages |
|------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|-----------|---------|-------|----------------|------------|-------------------|-------|----------------------|-----|------|--------|------------------|----------|--------|----------|-----------------|------------------|----------------------|------|----------|------|-----------|--------|--------|----------------------|-----------|--------|--------|--------------|
| Central Tools Inc.<br>Ph. 401-467-8211 Fax 401-461-5670                                                                            |     |      | x    |           |         | x     | x              |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        | x      |              |
| Chicago Dial Indicator Co. <a href="http://www.dialindicator.com">www.dialindicator.com</a><br>Ph. 847-827-7186 Fax 847-827-0478   |     |      |      |           |         | x     | x              | x          |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Cincinnati Precision Instruments<br>Ph. 513-874-2122 Fax 513-874-2536                                                              |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| CMI International <a href="http://www.cmiinternational.com">www.cmiinternational.com</a><br>Ph. 800-678-1117 Fax 847-439-4425      |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Compac Precision Gages<br>Ph. 888-841-7230 Fax 516-265-7449                                                                        |     |      | x    |           |         |       | x              |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Compix Inc. <a href="http://www.compix.com">www.compix.com</a><br>Ph. 503-639-8496                                                 |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Comtorgage Corp.<br>Ph. 401-765-0900 Fax 401-765-2846                                                                              |     |      | x    |           |         | x     | x              | x          |                   |       |                      |     | x    | x      | x                |          |        |          |                 |                  |                      |      | x        |      |           |        |        |                      |           |        |        | x            |
| Controls International Inc.<br>Ph. 800-777-0059 Fax 810-532-8103                                                                   |     |      |      |           |         |       | x              |            |                   |       | x                    |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Cuda Products Corp. <a href="http://www.cuda.com">www.cuda.com</a><br>Ph. 904-737-7611 Fax 904-733-4832                            |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| CyberOptics Corp. <a href="http://www.cyberoptics.com">www.cyberoptics.com</a><br>Ph. 612-542-5000 Fax 612-542-5100                |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| D.A.S. Distribution Inc. <a href="http://www.dasdistribution.com">www.dasdistribution.com</a><br>Ph. 888-344-0111 Fax 860-844-3063 |     |      |      |           |         | x     | x              | x          |                   |       |                      | x   |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        | x            |
| D. Beck Co.<br>Ph. 860-354-1488 Fax 860-350-5165                                                                                   |     |      | x    |           |         | x     | x              | x          | x                 |       |                      |     | x    |        | x                | x        | x      |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Data Optics Inc. <a href="http://www.dataoptics.com">www.dataoptics.com</a><br>Ph. 800-321-9026 Fax 734-483-9879                   |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| DataMyte/Rockwell Automation <a href="http://www.datamyte.com">www.datamyte.com</a><br>Ph. 612-935-7704 Fax 612-935-0018           |     |      |      |           |         |       |                |            |                   | x     |                      | x   |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Dave Jones Machinists <a href="http://sight-pipe.com">sight-pipe.com</a><br>Ph. 219-256-5500 Fax 219-256-5500                      |     |      |      |           |         | x     |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        | x            |
| DCT Instruments <a href="http://www.sensotec.com">www.sensotec.com</a><br>Ph. 614-850-5000 Fax 614-850-1144                        |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Defelsko Corp. <a href="http://www.defelsko.com">www.defelsko.com</a><br>Ph. 800-448-3835 Fax 315-393-8471                         |     |      |      |           |         |       |                | x          |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Deltronic Corp. <a href="http://www.deltronic.com">www.deltronic.com</a><br>Ph. 714-545-0401 Fax 714-641-0946                      |     |      | x    |           |         |       |                |            |                   |       |                      |     | x    |        |                  |          |        |          |                 |                  |                      |      | x        |      |           |        |        |                      |           |        |        |              |
| Diffrauto Ltd. <a href="http://diffrauto.com">diffrauto.com</a><br>Ph. 519-945-6373 Fax 519-945-1467                               |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        | x            |
| Dillon (div. of Weigh-Tronix) <a href="http://www.dillon-force.com">www.dillon-force.com</a><br>Ph. 507-238-4461 Fax 507-238-8258  |     |      |      |           |         |       |                |            |                   |       | x                    |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Dimensional Data Systems<br>Ph. 937-299-5225 Fax 937-299-0698                                                                      | x   |      | x    |           |         |       | x              |            | x                 | x     |                      | x   |      | x      |                  |          |        |          |                 |                  |                      | x    | x        | x    | x         |        |        |                      |           |        | x      |              |
| DoALL <a href="http://www.doall.com">www.doall.com</a><br>Ph. 847-824-1122 Fax 847-699-7524                                        |     |      | x    |           |         | x     | x              |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Dorsey Gage Co.<br>Ph. 914-454-3111 Fax 914-454-3140                                                                               |     | x    | x    | x         |         | x     | x              | x          |                   | x     |                      | x   | x    | x      | x                |          |        |          |                 | x                |                      | x    | x        | x    | x         | x      |        |                      |           |        |        | x            |
|                                                                                                                                    |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |

# Gage Manufacturers Buyers Guide

|                                                                        | Air | Ball | Bore | Centering | Chamber | Depth | Dial indicator | Electronic | Electronic column | Flush | Force/torque/tension | Cap | Gear | Groove | Handheld dimens. | Hardness | Height | Humidity | Laser profiling | Length of travel | Noncontact thickness | Plug | Pressure | Ring | Roundness | Spline | Strain | Tapped hole location | Thickness | Thread | Vacuum | Custom gages |
|------------------------------------------------------------------------|-----|------|------|-----------|---------|-------|----------------|------------|-------------------|-------|----------------------|-----|------|--------|------------------|----------|--------|----------|-----------------|------------------|----------------------|------|----------|------|-----------|--------|--------|----------------------|-----------|--------|--------|--------------|
| <b>Dow Mechanical Corp.</b><br>Ph. 860-745-6000 Fax 860-745-4481       |     |      |      |           |         |       |                |            |                   | x     |                      |     |      |        | x                |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        | x            |
| <b>Dundick Corp.</b><br>Ph. 708-656-6363 Fax 708-656-2359              |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        | x                |          |        |          |                 |                  |                      | x    |          |      |           |        |        |                      |           |        |        |              |
| <b>Dwight D.I.C. Inc.</b><br>Ph. 800-635-2910 Fax 201-438-0594         |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Dyer Co.</b><br>Ph. 800-631-3333 Fax 717-569-6721                   |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        | x                |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Edmunds Gages</b><br>Ph. 800-677-2813 Fax 860-677-4243              |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        | x                |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Edmunds Gages</b><br>Ph. 800-631-3333 Fax 717-569-6721              |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        | x                |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Edmunds Gages</b><br>Ph. 800-677-2813 Fax 860-677-4243              |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        | x                |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Electronic Equipment Co.</b><br>Ph. 800-645-4330 Fax 516-295-4399   |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Elektro-Physik USA Inc.</b><br>Ph. 847-437-6616 Fax 847-437-0053    |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Elisha Penniman</b><br>Ph. 860-233-1104 Fax 860-232-7313            |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>ERL Gaging Systems</b><br>Ph. 800-831-9510 Fax 812-944-8808         |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Etamic Corp.</b><br>Ph. 734-459-7230 Fax 734-459-7097               |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Faro Technologies Inc.</b><br>Ph. 407-333-9911 Fax 407-333-4181     |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Fischer Technology Inc.</b><br>Ph. 800-243-8417 Fax 860-688-8496    |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Flexbar Machine Corp.</b><br>Ph. 516-582-8440 Fax 516-582-8487      |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Ford Tool &amp; Gage Corp.</b><br>Ph. 414-466-4243 Fax 414-466-4270 |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Gaertner Scientific</b><br>Ph. 847-673-5006 Fax 847-673-5009        |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Gage Assembly Co.</b><br>Ph. 847-679-5180 Fax 847-679-5190          |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Gage-Line Technology Inc.</b><br>Ph. 716-458-2000 Fax 716-458-0524  |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Gagemaker Inc.</b><br>Ph. 713-472-7360 Fax 713-472-7241             |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>GENX Corp.</b><br>Ph. 616-323-3861 Fax 616-323-3861                 |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Glastonbury Gage</b><br>Ph. 860-633-5271 Fax 860-633-0054           |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Granville-Phillips</b><br>Ph. 800-776-6543 Fax 303-443-2546         |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Greenslade &amp; Co. Inc.</b><br>Ph. 800-435-2657 Fax 815-654-3447  |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| <b>Gretag Macbeth</b><br>Ph. 914-565-7660 Fax 914-565-0390             |     |      |      |           |         |       |                |            |                   |       |                      |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |

# Gage Manufacturers Buyers Guide

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| Gage Manufacturers<br>Buyers Guide                                                                                                  |  | Air | Ball | Bore | Centering | Chamfer | Depth | Dial indicator | Electronic | Electronic column | Flush | Force\ torque\ tension | Gap | Gear | Groove | Handheld dimens. | Hardness | Height | Humidity | Laser profiling | Length of travel | Noncontact thickness | Plug | Pressure | Ring | Roundness | Spline | Strain | Tapped hole location | Thickness | Thread | Vacuum | Custom gages |
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| Leybold Inficon<br>Ph. 315-434-1100 Fax 315-437-3803<br><a href="http://www.leyboldinficon.com">www.leyboldinficon.com</a>          |  |     |      |      |           |         |       | x              |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      | x    |          |      |           |        |        |                      |           |        | x      |              |
| Lincoln Gage Co.<br>Ph. 810-772-3900 Fax 313-371-8808<br><a href="http://lionprecision.com">lionprecision.com</a>                   |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      | x    |          |      |           |        |        |                      |           |        |        |              |
| Lion Precision<br>Ph. 651-484-6544 Fax 651-484-6824                                                                                 |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| LMI<br>Ph. 810-266-5811 Fax 810-266-5711<br><a href="http://www.vision sciences.com">www.vision sciences.com</a>                    |  |     |      |      |           |         |       |                |            |                   | x     |                        | x   |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Machida Inc.<br>Ph. 800-431-5420 Fax 914-365-0620                                                                                   |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Macro Systems Inc.<br>Ph. 203-225-6266 Fax 203-225-6260                                                                             |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Mahr Federal—Cincinnati<br><a href="http://www.mahrusa.com">www.mahrusa.com</a>                                                     |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Mahr Federal—Providence<br><a href="http://www.mahrusa.com">www.mahrusa.com</a>                                                     |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Mark-10 Corp.<br>Ph. 401-784-3100 Fax 401-784-3246<br><a href="http://www.mark-10.com">www.mark-10.com</a>                          |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Marposs Corp.<br>Ph. 516-822-5300 Fax 516-822-5301                                                                                  |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Measure-All Inc.<br>Ph. 248-370-0404 Fax 248-370-0621<br><a href="http://measure-all.com">measure-all.com</a>                       |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Measurements Group<br>Ph. 800-758-2376 Fax 513-829-1105<br><a href="http://www.measurementsgroup.com">www.measurementsgroup.com</a> |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Mechanical Technology Inc.<br>Ph. 518-785-2389 Fax 518-218-2506<br><a href="http://www.mechtech.com">www.mechtech.com</a>           |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Meriam Instrument<br>Ph. 216-281-1100 Fax 216-281-0228<br><a href="http://www.meriam.com">www.meriam.com</a>                        |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Meyer Gage Co. Inc.<br>Ph. 800-243-7087 Fax 860-528-1428<br><a href="http://www.meyergage.com">www.meyergage.com</a>                |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Midwest FlexSystems Inc.<br>Ph. 810-658-0060 Fax 810-658-8179<br><a href="http://www.midwestflex.com">www.midwestflex.com</a>       |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Millennia 3<br>Ph. 412-492-0200 Fax 412-492-0202<br><a href="http://www.militutoyo.com">www.militutoyo.com</a>                      |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Mitutoyo/MTI Corp.<br>Ph. 630-820-9666 Fax 630-820-7413<br><a href="http://www.mtsinc.com">www.m</a>                                |  |     |      |      |           |         |       |                |            |                   |       |                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |

| Gage Manufacturers Buyers Guide                                                                                                      |  | Air | Ball | Bore | Centering | Chamfer | Depth | Dial indicator | Electronic | Electronic column | Flush | Force \ torque \ tension | Gap | Gear | Groove | Handheld dimens. | Hardness | Height | Humidity | Laser profiling | Length of travel | Noncontact thickness | Plug | Pressure | Ring | Roundness | Spline | Strain | Tapped hole location | Thickness | Thread | Vacuum | Custom gages |
|--------------------------------------------------------------------------------------------------------------------------------------|--|-----|------|------|-----------|---------|-------|----------------|------------|-------------------|-------|--------------------------|-----|------|--------|------------------|----------|--------|----------|-----------------|------------------|----------------------|------|----------|------|-----------|--------|--------|----------------------|-----------|--------|--------|--------------|
| MTI Advanced Products Div.<br>Ph. 518-785-2389 Fax 518-785-2806<br><a href="http://www.mechtech.com">www.mechtech.com</a>            |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  | x                    |      |          |      |           |        |        |                      |           |        | x      |              |
| MTS Systems Corp.<br>Ph. 612-937-4000 Fax 612-937-4515<br><a href="http://www.mts.com">www.mts.com</a>                               |  |     |      |      |           |         |       |                |            |                   |       | x                        |     |      | x      |                  |          |        |          | x               |                  |                      |      |          |      |           | x      |        |                      |           |        | x      |              |
| Mueller Gages Co.<br>Ph. 626-287-2911 Fax 626-286-8693<br><a href="http://www.nikonusa.com">www.nikonusa.com</a>                     |  |     | x    |      |           |         | x     |                |            |                   |       |                          |     | x    |        | x                |          |        |          |                 |                  |                      |      |          |      | x         |        |        |                      |           |        |        |              |
| Nikon Inc.<br>Ph. 516-547-8524 Fax 516-547-8559<br><a href="http://www.natool.com">www.natool.com</a>                                |  |     |      |      |           |         | x     |                |            |                   |       |                          |     |      |        |                  |          | x      |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| North American Tool Corp.<br>Ph. 800-872-8277 Fax 815-389-2952<br><a href="http://www.ogtechnology.com">www.ogtechnology.com</a>     |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| OG Technology Inc.<br>Ph. 734-769-8500 Fax 734-769-1775<br><a href="http://www.onosokki.net">www.onosokki.net</a>                    |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Ono Sokki Technology Inc.<br>Ph. 630-627-9700 Fax 630-627-0004<br><a href="http://www.panametries.com">www.panametries.com</a>       |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Panametries Inc.<br>Ph. 781-899-2719 Fax 781-899-1552<br><a href="http://www.gsma.com">www.gsma.com</a>                              |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Parish Automation Inc.<br>Ph. 407-728-3800 Fax 407-728-5555<br><a href="http://www.gardco.com">www.gardco.com</a>                    |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Paul N. Gardner Co. Inc.<br>Ph. 954-946-9454 Fax 954-946-9309                                                                        |  |     |      |      |           |         |       |                |            |                   |       | x                        |     |      |        | x                | x        |        | x        |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Pennoyer-Dodge Co.<br>Ph. 800-736-4243 Fax 818-240-5719<br><a href="http://www.phitool.com">www.phitool.com</a>                      |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| PH Tool Reference Standards<br>Ph. 215-822-1933 Fax 215-822-6799<br><a href="http://www.phase1inst.com">www.phase1inst.com</a>       |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Phase One Instruments Inc.<br>Ph. 937-253-7377 Fax 937-253-3877<br><a href="http://www.pitape.com">www.pitape.com</a>                |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Pi Tape<br>Ph. 760-746-9830 Fax 760-746-9196<br><a href="http://www.pqsystms.com">www.pqsystms.com</a>                               |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| PQ Systems Inc.<br>Ph. 800-777-3020 Fax 937-885-2252<br><a href="http://www.moore-solutions.com/mms">www.moore-solutions.com/mms</a> |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Pratt & Whitney<br>Ph. 860-747-6664 Fax 860-747-4988<br><a href="http://www.preddev.com">www.preddev.com</a>                         |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Precision Devices Inc.<br>Ph. 734-439-2462 Fax 734-439-1461<br><a href="http://www.probeproducts.com">www.probeproducts.com</a>      |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Probe Products Corp.<br>Ph. 716-773-5554 Fax 716-773-5336                                                                            |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Profile Engineering<br>Ph. 802-885-9176 Fax 802-885-6559<br><a href="http://qc-solutions.com">qc-solutions.com</a>                   |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Quality Control Solutions Inc.<br>Ph. 909-676-1616 Fax 909-676-8970<br><a href="http://qmscorporation.com">qmscorporation.com</a>    |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |
| Quality Measurement Systems<br>Ph. 800-234-2                                                                                         |  |     |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |           |        |        |                      |           |        |        |              |



# Gage Manufacturers Buyers Guide

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| Thread Check<br>Ph. 800-767-7633 Fax 516-231-1625                                                             |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| The Tool & Gage House<br>Ph. 704-552-8444 Fax 704-552-6869                                                    |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Tri-Star Gage Inc.<br>www.tri-stargage.com<br>Ph. 860-243-2549 Fax 860-243-2540                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| TSI Inc.<br>www.tsi.com<br>Ph. 651-490-3877 Fax 651-490-3825                                                  |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
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| Veeco Instruments Inc.<br>www.veeco.com<br>Ph. 516-738-9300 Fax 516-738-9329                                  |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
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| Versa Gage<br>www.versagage.com<br>Ph. 800-687-1145 Fax 419-898-4470                                          |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
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| Vollmer America Inc.<br>vollmer-gauge.com<br>Ph. 860-824-5157 Fax 860-824-0682                                |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Wagner Instruments<br>www.wagnerforce.com<br>Ph. 203-698-9681 Fax 203-698-9696                                |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Western Gage Corp.<br>Ph. 805-445-1410 Fax 805-445-7530                                                       |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Western Spline Gage<br>Ph. 616-393-9580 Fax 616-393-9583                                                      |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| WILKA Instrument Corp.<br>www.wilka.com<br>Ph. 770-513-8200 Fax 770-338-5118                                  |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Willich Precision Instrument Co. Inc.<br>Ph. 201-567-1411 Fax 201-567-7470                                    |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Wilson Instrument Co.<br>Ph. 626-449-4858 Fax 626-449-6121                                                    |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| WJZ Gage & Tool Corp.<br>Ph. 914-229-2929 Fax 914-229-8128                                                    |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Zero Check<br>Ph. 860-283-5629 Fax 860-283-4113                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Zumbach Electronics Corp.<br>www.zumbach.com<br>Ph. 914-241-7080 Fax 914-241-7096                             |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Air                                                                                                           | Ball | Bore | Centering | Chamfer | Depth | Dial indicator | Electronic | Electronic column | Flush | Force \ torque \ tension | Cap | Gear | Groove | Handheld dimens. | Hardness | Height | Humidity | Laser profiling | Length of travel | Noncontact thickness | Plug | Pressure | Ring | Rounness | Spline | Strain | Tapped hole location | Thickness | Thread | Vacuum | Custom gages |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          | x               |                  | x                    |      |          |      |          |        | x      |                      |           |        |        |              |
| Surface roughness gages                                                                                       |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        | x      |                      |           |        |        |              |
| Tension meters and tension gages                                                                              |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Thread gaging software                                                                                        |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| x                                                                                                             | x    | x    | x         | x       | x     | x              | x          | x                 | x     | x                        |     | x    |        | x                | x        | x      |          | x               | x                | x                    | x    | x        | x    | x        |        |        |                      | x         |        | x      |              |
| Calibration services, dimensional and electronic, ISO 9002                                                    |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Pre-plate thread gages, variance indicating thread gages, tri-roll gages                                      |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Diameter gages, noncontact speed gages, extensometers, displacement/distance gages, laser triangulation gages |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| x                                                                                                             | x    |      |           |         | x     | x              | x          | x                 |       |                          |     | x    |        |                  |          | x      |          |                 |                  |                      |      |          |      |          |        |        | x                    |           |        |        | x            |
| Hole-to-hole, hole-to-edge, on center lines, squareness                                                       |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        | x                |          |        | x        |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Width gages, shape (flatness) gages                                                                           |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                | x          |                   |       | x                        |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| x                                                                                                             | x    |      |           |         |       |                | x          | x                 |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Master gears                                                                                                  |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Thermometers, transmitters and chemical seals                                                                 |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| x                                                                                                             |      |      |           |         |       |                | x          |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
| Wilson Instrument Co.                                                                                         |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |
|                                                                                                               |      |      |           |         |       |                |            |                   |       |                          |     |      |        |                  |          |        |          |                 |                  |                      |      |          |      |          |        |        |                      |           |        |        |              |

## Gage Directory

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Waterford, MI 48327  
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[www.aajansson.com](http://www.aajansson.com)

New and used precision measuring equipment, including CMMs, optical comparators, vision systems, surface plates, gage blocks, fixed limit gages and more. A2LA calibration services. Repairs, upgrades and retrofits available.

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### ABITEC Co.

714 E. 200 St.  
Cleveland, OH 44119  
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Ph. 800-382-0393 Fax 814-337-8288  
First article inspection, PPAPs, ISIRs, reverse engineering, fixture design and build. Twelve optical and two touch-probe CMMs, scanning capability.

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[www.acu-gage.com](http://www.acu-gage.com)  
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[www.adaptiveoptics.com](http://www.adaptiveoptics.com)

### Advanced Coordinate Technology

4895 Joilet Street, Unit 7D  
Denver, CO 80239  
Ph. 303-371-6818 Fax 303-371-6919  
[www.actdenver.com](http://www.actdenver.com)  
Advanced Coordinate Technology offers precision measurement, reverse engineering and data analysis. In partnership with Klontech Industrial sales, ACT offers sales, service and support for a complete line of metrology and inspection equipment.

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Concord, OH 44077  
Ph. 440-352-9921 Fax 440-352-9929  
[www.ahlegian.com](http://www.ahlegian.com)  
Ahlegian Precision supplies superior dimensional gaging products and services for quality control. AP's success is due to its strength in complementary divisions and long-term commitment to industry.

### Airtronics

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Elgin, MI 60120  
Ph. 847-695-0911 Fax 847-695-8745

### Albion Devices Inc.

742 Genevieve St., Suite L  
Solana Beach, CA 92075  
Ph. 619-792-9585 Fax 619-792-9644  
[www.albiondevices.com](http://www.albiondevices.com)  
Suppliers of temperature-compensation systems, which can be retrofitted to gages made by other manufacturers. We also supply precision gages with built-in temperature-compensation systems.

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4203-G W. Lakeshore Drive  
Wonder Lake, IL 60097  
Ph. 815-344-9496 Fax 815-728-8076  
[www.americal.com](http://www.americal.com)

### American Technica Inc.

118 Denton Ave.  
New Hyde Park, NY 11040  
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ATI carries a complete line of styli in thread sizes of M2, M3, M4, DEA M4 and M5. Ball diameters start at 0.3 mm. Inspection probe heads for the machine tool industry are also available.

### Anderson Industrial

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Rockford, IL 61130  
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Anderson designs inspection fixtures and provides electronic data collection equipment, ring gages, plug gages, and thread gages. Standard and special bore and dial gages, indicators, micrometers, calipers, and other precision tools.

### Angrave Metrology & Supply Co.

P.O. Box 1825  
Waterbury, CT 06722-1825  
Ph. 1-800-827-7487 Fax 800-825-6481  
[www.angrave.com](http://www.angrave.com)  
Angrave is a distributor of dimensional metrology equipment. We are ISO 9002-registered and offer dimensional calibration services for all types of gages and equipment.

### Anter Corp.

1700 Universal Road  
Pittsburgh, PA 15235  
Ph. 412-795-6410 Fax 412-795-8225  
[www.anter.com](http://www.anter.com)  
Anter, an ISO 9000-certified company, is a leading manufacturer of thermophysical properties measurement instruments and testing services. Product areas include thermal expansion dilatometers, thermal conductivity testers and thermal flash diffusivity systems.

### Apco Mossberg Torque Tool Co.

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[www.arnoldgauge.com](http://www.arnoldgauge.com)

Our services include: in-process and automatic grinding gages, flagging, connecting rod, ID and barrel gages. We also specialize in custom gage applications from solutions to design to build.

### Assurance Technologies Inc.

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[www.atiquality.com](http://www.atiquality.com)

### ATEQ Corp.

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[www.ateq.com](http://www.ateq.com)  
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Noncontact ultrasonic distance sensors for machinery and industrial automation. Applications include motion controls, liquid and solid levels, positioning, dimensioning, proximity, web controls, roll diameter and loop controls. Connect with displays, indicators, PLCs or computers. Push-button or computer-adjusted models.

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Ph. 631-757-8091 Fax 631-754-0562

**Sensotec Inc.**

2080 Arlingate Lane

Columbus, OH 43228

Ph. 800-848-6564 Fax 614-850-1111  
[www.sensotec.com](http://www.sensotec.com)

Sensotec manufactures a complete line of industrial pressure sensors for monitoring gage, absolute, vacuum, differential and barometric pressure. Load cells to measure tension, compression and reaction torque; accelerometers; LVDTs and instrumentation.

**Setra Systems Inc.**

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Ph. 978-692-4297 Fax 978-264-0292  
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**Shimpo Instruments**

1701 Glenlake Ave.  
Itasca, IL 60143  
Ph. 630-924-7138 Fax 630-924-0342  
[www.shimpoinst.com](http://www.shimpoinst.com)

Leading manufacturer of force and torque measurement equipment, including digital and manual force gages, torque transducers, remote load cells, motorized and manual test stands and accessories for tension and compression testing in nearly every application. Vision inspection tools.

**Sight-Pipe Optical Systems**

1815 N. Cedar St.  
Mishawaka, IN 46545  
Ph. 219-256-5500 Fax 219-256-5500  
[www.ntma.org/davejones.htm](http://www.ntma.org/davejones.htm)  
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Ph. 847-439-9220 Fax 847-593-1207

**Solartron Metrology**

10770 Hanover Road  
Forrestville, NY 14062  
Ph. 800-772-2702 Fax 716-965-4144  
[www.solartron-metrology.com](http://www.solartron-metrology.com)

**SolveTech Inc.**

7505 Governor Priotz Blvd.  
Claymont, DE 19703  
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[www.gauging.com](http://www.gauging.com)

**Sonnet Supply**

12824 Simms Ave.  
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**Sony Precision Technology America Inc.**

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Lake Forest, CA 92630  
Ph. 949-770-8400 Fax 888-910-7669  
[www.sonypt.com](http://www.sonypt.com)

Sony Precision Technology America Inc. is a leading provider of precision measurement devices, including data recorders, linear encoders, digital linear gages, feedback scales, digital readout displays and CNCs.

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 Strainoptic manufactures specialized testing instruments for evaluation of retardation, stress birefringence and residual stress in transparent plastics, glass and other materials. Polariscopes, polarimeters, strain viewers, specialized instruments for measuring surface stress (GASP) and edge stress are available.

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#### **Structure Probe Inc.**

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4357 Park Drive, Suite J  
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[www.systronics-inc.com](http://www.systronics-inc.com)

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#### **WIKI Instruments Corp.**

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#### **WJZ Gage & Tool Corp.**

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Note 1: OC=Optical Comparator, VM=Video Measurement, MM=Measuring Microscope

| Optical Dimensional Measurement Systems                                   |          | Machine Type | Stage Size |         | Stage Travel |         |         | Stage Capacity (lbs.) | Lenses                    |             | Scale Resolution | Illum.   |        |            | Screen Dia. (in.) (for opt. comp.) | Display Readout               | Op. |        | Lighting for Video |       |            |
|---------------------------------------------------------------------------|----------|--------------|------------|---------|--------------|---------|---------|-----------------------|---------------------------|-------------|------------------|----------|--------|------------|------------------------------------|-------------------------------|-----|--------|--------------------|-------|------------|
|                                                                           |          |              | X (in.)    | Y (in.) | X (in.)      | Y (in.) | Z (in.) |                       | Profile Transmitted       | Diaposcopic |                  | External | Manual | DCC or CNC |                                    |                               | Top | Bottom | Ring               | Other |            |
| Company/Product                                                           |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Acu-Gage Systems<br>Ph. 603-622-2481    Fax 603-626-1277                  |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Acu-Gage 1                                                                | VM       | 24-132       | 24-132     | 12-120  | 12-120       | 12-120  | 12-120  | 2,200                 | Z:7:1 F:3", 3/4"          | 20 μ"       |                  |          |        |            |                                    | digital                       | x   | Manual |                    |       | TTL, LED   |
| AGLMDA                                                                    | VM       | 60           | 60-108     | 48      | 48-96        | 48      | 48-96   | 0-4                   | Z:7:1 F:3", 3/4"          | 20 μ"       |                  |          |        |            |                                    | digital                       | x   |        |                    |       | TTL, LED   |
| High Precision Line                                                       | VM       | 45-67        | 41-48      | 8-24    | 8-24         | 8-24    | 8-24    | 25                    | Z:7:1 F:3", 3/4"          | 20 μ"       |                  |          |        |            |                                    | digital                       | x   |        |                    |       | TTL, LED   |
| High Speed Line                                                           | VM       | 50-62        | 50-75      | 24-36   | 24-48        | 24-36   | 24-48   | 25                    | Z:7:1 F:3", 3/4"          | 20 μ"       |                  |          |        |            |                                    | digital                       | x   |        |                    |       | TTL, LED   |
| Adaptive Optics Associates Inc.<br>Ph. 617-864-0201    Fax 617-864-1348   |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| OMS                                                                       | VM       |              |            |         |              |         |         |                       | F:avail.                  | 0.1" @140"  |                  |          |        |            |                                    | 4-20 ma, digital data storage | x   |        |                    |       |            |
| GRIMMS                                                                    | VM       |              |            |         |              |         |         |                       | F:avail.                  | 0.01" @140" |                  |          |        |            |                                    | 4-20 ma, digital data storage | x   |        |                    |       |            |
| BDS Technologies Inc.<br>Ph. 610-640-0500    Fax 610-640-9750             |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Measuring Microscope                                                      | MM       | 24           | 12         | 12      | 8            | 12      | 8       | 35                    | F:1X-1,000X               | 0.5-2μm     | x                | x        | x      | x          |                                    | linear scales, micrometer     |     |        |                    |       |            |
| Optical Comparator                                                        | OC       | 36           | 12         | 16      | 8            | 16      | 8       | 100                   | F:5X-500X                 | 0.5-2μm     | x                | x        | x      | x          | 12-30                              | linear scales, micrometer     |     |        |                    |       |            |
| Video Measurement                                                         | VM       | 36           | 36         | 24      | 24           | 24      | 24      |                       | Z:27X-540X F:44X-1,000X   | 0.5-2μm     | x                | x        | x      | x          |                                    | linear scales, micrometer     | x   |        |                    |       |            |
| Brown & Sharpe Custom Metrology<br>Ph. 800-344-8372    Fax 248-347-5906   |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Profile 180                                                               | VM       | 31.5         | 7.1        |         |              |         |         |                       | Fixed                     | 10 μ"       | x                |          |        |            |                                    | linear CCD arrays             | x   |        |                    |       | collimated |
| Profile 20                                                                | VM       | 4.9          | 0.75       |         |              |         |         |                       | Fixed                     | 10 μ"       | x                |          |        |            |                                    | linear CCD arrays             | x   |        |                    |       | collimated |
| Profile 30                                                                | VM       | 8            | 1.2        |         |              |         |         | 3.8                   | Fixed                     | 10 μ"       | x                |          |        |            |                                    | linear CCD arrays             | x   |        |                    |       | collimated |
| Profile 30LS                                                              | VM       | 35.4         | 1.2        |         |              |         |         | 44                    | Fixed                     | 10 μ"       | x                |          |        |            |                                    | linear CCD arrays             | x   |        |                    |       | collimated |
| Profile 80/80E/80LS                                                       | VM       | 13.8-35.4    | 3.1        |         |              |         |         | 16-44                 | Fixed                     | 10 μ"       | x                |          |        |            |                                    | linear CCD arrays             | x   |        |                    |       | collimated |
| Computer Recognition Systems Inc.<br>Ph. 617-491-7665    Fax 617-491-7753 |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Video Gauge                                                               | VM       | 120          | 120        | 120     | 120          | 120     | 120     | 60                    | Z:2.5-120 mm F: avail.    | 1/32 pxl    |                  |          | x      | x          |                                    | multiple                      | x   | x      | x                  |       | custom     |
| Data Optics Inc.<br>Ph. 800-321-9026    Fax 734-483-9879                  |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Super Gauge                                                               | MM       | 12-36        |            |         |              |         | 12-36   |                       | F:40X                     | 200 μ"      |                  |          |        |            |                                    | direct reading scale          |     |        | x                  |       |            |
| Deltronic Corp.<br>Ph. 800-969-3358    Fax 714-641-0946                   |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| DH216/DH30                                                                | OC       | 10-25        | 6-9        | 10-12   | 6-8          | 10-12   | 6-8     | 3                     | Z:10X-100X                | 1 μm        | x                | surface  |        | 16-30      | digital; X,Y,Z; geom. call-outs    |                               |     |        |                    |       |            |
| DV114                                                                     | OC       | 8            | 4          | 8       | 4            | 8       | 4       | 3                     | Z:10X-100X                | 1 μm        | x                | surface  |        | 14         | digital, PC-based                  |                               |     |        |                    |       |            |
| DV124                                                                     | OC       | 12           | 6          | 12      | 6            | 12      | 6       | 3.5                   | Z:5X-100X                 | 1 μm        | x                | surface  |        | 24         | digital, PC-based; X,Y only        |                               |     |        |                    |       |            |
| DVC110/115                                                                | VM       |              |            | 2-8     | 2-4          | 2-8     | 2-4     | 4                     | Z:25X-455X                | 1 μm        | x                |          |        |            | digital; X,Y,Z; PC-based           |                               |     |        |                    |       | coaxial    |
| DVC120                                                                    | VM       | 8-12         | 4-6        | 8-12    | 4-6          | 8-12    | 4-6     | 5                     | Z:25X-455X                | 1 μm        |                  |          |        |            | black box DRO; PC-based; X, Y, Z   |                               |     |        |                    |       | coaxial    |
| DVC220                                                                    | VM       |              |            | 18-24   | 18           | 18-24   | 18      | 8                     | Z:25X-455X                | 1 μm        |                  |          |        |            | PC-based; X,Y,Z                    |                               |     |        |                    |       | coaxial    |
| VMS121                                                                    | VM       | 12           | 6          | 12      | 6            | 12      | 6       | 5                     | Z:25X-455X                | 1 μm        |                  |          |        |            | PC-based; digital; X,Y,Z           |                               |     |        |                    |       | coaxial    |
| Dimensional Control Corp.<br>Ph. 206-575-6399    Fax 206-575-6280         |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Smart Scope Zip, Avant Zip                                                | OC/MM/MM | 12-40        | 10-40      | 8-36    | 6-36         | 8-36    | 6-36    | 6                     | Z:20X-1,500X F:1.5" - 10" | 10 μ"       | x                | x        | x      | x          | 14, 20, 30                         |                               |     |        |                    |       | coaxial    |
| Dorsey Gage Co.<br>Ph. 914-454-3111    Fax 914-454-3140                   |          |              |            |         |              |         |         |                       |                           |             |                  |          |        |            |                                    |                               |     |        |                    |       |            |
| Optical Comparators, Vision Systems                                       | OC/MM    | 30           |            |         |              |         |         | 500                   | Z:10X-200X F:avail.       |             | x                |          |        |            | 12-60                              | Quadra Chek DRO, scales       | x   | x      | x                  |       |            |

Note 1: OC=Optical Comparator, VM=Video Measurement, MM=Measuring Microscope

| Optical Dimensional Measurement Systems                                                           |  | Machine Type | Stage Size |            | Stage Travel |            |            | Lenses<br>Z=Zoom F=Fixed | Scale Resolution         | Illum.                   |                     |         |           | Display Readout | Op.                                 |                       | Lighting for Video |     |               |
|---------------------------------------------------------------------------------------------------|--|--------------|------------|------------|--------------|------------|------------|--------------------------|--------------------------|--------------------------|---------------------|---------|-----------|-----------------|-------------------------------------|-----------------------|--------------------|-----|---------------|
|                                                                                                   |  |              | X<br>(in.) | Y<br>(in.) | X<br>(in.)   | Y<br>(in.) | Z<br>(in.) |                          |                          | Stage Capacity<br>(lbs.) | Profile Transmitted | TTL     | Diascopic |                 | External                            | Manual                | DCC or CNC         | Top | Bottom        |
| Flexbar Machine Corp.<br>Ph. 516-582-8440 Fax 516-582-8487<br>Opti-Flex Granite "Z" System        |  | VM           | 12         | 12         | 12           | 12         | 4          | 25                       | Z:5X-500X                | 1 µm                     | x                   | x       | x         | x               | glass scales                        | x                     | x                  | x   |               |
|                                                                                                   |  | VM/MM        | 4          | 4          | 4            | 4          | 4          | 5                        |                          | 1 µm                     |                     |         | x         |                 | micrometer, digital scales          |                       |                    | x   |               |
| GENX Corp.<br>Ph. 616-323-3861 Fax 616-323-3861<br>GENX 14" Optical Comparator                    |  | OC           | 13-16.5    |            | 6-10         | 4.5        |            | 250                      | F:10X-62.5X              | 2 µm                     | x                   | surface |           | 14              | DRO, microprocessors, PC            |                       |                    |     |               |
|                                                                                                   |  | VM/MM        | 12-18      | 6-24       | 12-18        | 6-24       | 6          | 35-250                   | Z:avail. F:1X-250X       | 0.5                      | x                   | x       | x         | x               |                                     |                       | x                  | x   | LED           |
| GSI Lumonics<br>Ph. 805-578-5000 Fax 805-578-5249<br>View Voyager Series                          |  | VM/MM        | 3-24       | 3-24       | up to 24     | up to 24   | up to 24   |                          | Z:1X-5,000X F:20X-2,500X |                          | x                   |         | x         |                 |                                     | x                     |                    |     |               |
|                                                                                                   |  | VM/MM        | 50         | 28         | 12-24        | 12-20      | 6          | 60                       | Z:0-50X F:1X-250X        | 0.1µm                    | x                   | x       | x         |                 | DRO                                 | x                     | x                  | x   | remote        |
| JMAR Precision Systems Inc.<br>Ph. 818-700-8977 Fax 818-700-8984<br>Lumina                        |  | VM/MM        | 18         | 10         | 10           | 4          | 3          | 25                       | F:all                    | 0.1µm                    | x                   | x       | x         |                 | DRO                                 | x                     | x                  | x   | remote        |
|                                                                                                   |  | VM           |            |            | 15.7         | 9.8        | 9.8        | 44                       |                          | 0.5 µm                   |                     |         |           |                 | PC                                  |                       |                    | x   | coaxial, back |
| Mahr Federal Inc.<br>Ph. 800-969-1331 Fax 513-489-2020<br>Wegu Compact 400                        |  | VM           |            |            | 9.8-15.7     | 7.9        | 7.9        | 22-44                    |                          | 0.5 µm                   |                     |         |           |                 | PC                                  |                       |                    | x   | coaxial, back |
|                                                                                                   |  | VM           |            |            | 15.7-53.1    | 15.7-39.4  | 9.8-13.8   | up to 880                |                          | 0.5 µm                   |                     |         |           |                 | PC                                  |                       |                    | x   | coaxial, back |
| Measure-All Inc.<br>Ph. 513-829-0900 Fax 513-829-1105<br>Opti-Flex & DataStar                     |  | VM           | 8          | 4          | 8            | 4          | 12         |                          | Z:up to 10X              | 1 µm                     | x                   | x       |           |                 | digital mics to linear scales       | x                     | x                  | x   | quadrant      |
|                                                                                                   |  | OC           | 4-12       | 4-6        | 12           | 8          |            |                          | F:5X-100X                | 1 µm                     | x                   | x       | surface   |                 |                                     | linear digital scales |                    |     |               |
| Measurement Center Corp.<br>Ph. 714-632-8511 Fax 714-632-3628<br>Optical, Video Laser Touch Probe |  | OC/VM/MM     | 2-70       | 2-120      | 2-70         | 2-120      | 6-24       | 50-250                   | Z:20X-1,600X F:10X-100X  | 0.01 µm                  | x                   | x       | x         | x               | digital                             | x                     | x                  | x   | LED, coaxial  |
|                                                                                                   |  | VM/MM        | 8-16       | 8-16       | 4-8          | 4-8        | 0.1-8      | 20                       | F:5X-150X                | 0.1 µ"                   |                     |         | x         | x               | laser interferometer, linear scales |                       |                    | x   |               |
| Micro-Metric Inc.<br>Ph. 408-452-8505 Fax 408-452-8412<br>Integrated Measuring System (IMS)       |  | VM/MM        | 14         | 10         | 10           | 8          | 1          | 2                        | F:5X-150X                |                          |                     |         |           |                 |                                     |                       |                    |     |               |
|                                                                                                   |  | VM/MM        |            |            |              |            |            |                          |                          |                          |                     |         |           |                 |                                     |                       |                    |     |               |
| Micro-Vu Corp.<br>Ph. 707-838-6272 Fax 707-838-3985<br>Gantry                                     |  | VM           | 40-64      | 28-52      | 36-60        | 24-48      | 1.5        | 250                      | Z:25X-300X               | 20 µ"                    |                     |         |           |                 | InSpec                              |                       |                    | x   | coaxial       |
|                                                                                                   |  | VM           | 26-50      | 20-38      | 24-48        | 18-36      | 6-17       | 50                       | Z:25X-300X               | 50 µ"                    | x                   |         |           | LED             | Q-16 DRO, InSpec                    | x                     | x                  | x   | coaxial       |
| Quantum                                                                                           |  | VM           | 17-38      | 16-26      | 14-36        | 14-24      | 5.5-9      | 100                      | Z:25X-300X               | 20 µ"                    | x                   |         |           | LED             | InSpec                              | x                     | x                  | x   | coaxial       |
|                                                                                                   |  | VM           | 11-38      | 13-26      | 8-36         | 6-24       | 6-12       | 100                      | Z:25X-300X               | 4 µ"                     | x                   |         |           | LED             | Q-16, InSpec                        | x                     | x                  | x   | coaxial       |
| Spectra                                                                                           |  | OC           |            |            | 12           | 6          | 3          | 25                       | F:10X-100X               | 100 µ"                   | x                   |         |           |                 | Q-16 DRO                            | x                     | x                  | x   | coaxial       |
|                                                                                                   |  | VM           | 8.5-12.5   | 11-17.5    | 6-12         | 6-12       | 6-12       | 25                       | Z:25X-300X               | 50 µ"                    | x                   |         |           | LED             | Q-16 DRO, InSpec                    | x                     | x                  | x   | coaxial       |

Note 1: OC=Optical Comparator, VM=Video Measurement, MM=Measuring Microscope

| Optical Dimensional Measurement Systems                                                    |  | Machine Type | Stage Size |          | Stage Travel |          |         | Stage Capacity (lbs.) | Lenses                    |     | Scale Resolution | Illum.    |          |        |            | Screen Dia. (in.) (for opt. comp.) | Display Readout            | Op.                          |        | Lighting for Video |       |   |  |          |
|--------------------------------------------------------------------------------------------|--|--------------|------------|----------|--------------|----------|---------|-----------------------|---------------------------|-----|------------------|-----------|----------|--------|------------|------------------------------------|----------------------------|------------------------------|--------|--------------------|-------|---|--|----------|
|                                                                                            |  |              | X (in.)    | Y (in.)  | X (in.)      | Y (in.)  | Z (in.) |                       | Profile Transmitted       | TTL |                  | Diascopic | External | Manual | DCC or CNC |                                    |                            | Top                          | Bottom | Ring               | Other |   |  |          |
| Company/Product                                                                            |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| Millennia 3 Inc.<br>Ph. 412-492-0200    Fax 412-492-0202<br>Cross Check-3D                 |  | VM           |            |          |              |          |         |                       |                           |     | custom           |           |          |        |            |                                    | customer's choice          | x                            | x      | x                  | x     |   |  |          |
| Mycrona Inc.<br>Ph. 734-453-5880    Fax 734-453-4076                                       |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| Altera                                                                                     |  | VM           | 16         | 16       | 16           | 16       | 12      | 50                    | Z:37X-600X F:1X-50X       |     | 0.04 µm          | x         | x        | x      |            |                                    | linear glass scales        | x                            | x      | x                  | x     |   |  | custom   |
| Magnus                                                                                     |  | VM           | 24         | 24       | 24           | 24       | 12      | 200                   | Z:37X-600X F:1X-50X       |     | 0.1 µm           | x         | x        | x      |            |                                    | linear glass scales        | x                            | x      | x                  | x     |   |  | custom   |
| Primus                                                                                     |  | VM           | 12         | 6        | 12           | 6        | 6       |                       | Z:37X-400X F:1X-50X       |     | 0.5 µm           | x         | x        | x      |            |                                    | linear metal scales        | x                            | x      | x                  | x     |   |  | custom   |
| Signum                                                                                     |  | VM           | 16         | 16       | 16           | 16       | 6       | 80                    | Z:37X-600X F:1X-50X       |     | 0.1 µm           | x         | x        | x      |            |                                    | linear glass scales        | x                            | x      | x                  | x     |   |  | custom   |
| Nikon Inc.<br>Ph. 631-547-8500    Fax 631-547-0306                                         |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| Nikon Measurescope                                                                         |  | MM           | up to 10   | up to 6  | up to 10     | up to 6  | up to 8 | up to 44              | F:1X-100X                 |     | 0.4 µm           | x         | x        | x      |            |                                    | digital linear scales      | x                            | x      |                    |       |   |  |          |
| Nikon Optical Comparator                                                                   |  | OC           | up to 10   | up to 6  | up to 10     | up to 6  | up to 6 | up to 44              | F:5X-100X                 |     | 0.4 µm           | x         | x        | x      |            |                                    | digital linear scales      | x                            | x      | x                  | x     |   |  |          |
| Nikon Veritas                                                                              |  | VM           | up to 20   | up to 21 | up to 20     | up to 21 | 6       | up to 66              | Z:10:1                    |     | 0.4 µm           | x         | x        | x      |            |                                    | digital linear scales      |                              |        |                    |       |   |  |          |
| Olympus America Inc.<br>Ph. 800-446-5967    Fax 516-844-5112                               |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| STM5-JM                                                                                    |  | VM/MM        | 15.7       | 5.9      | 5.9          | 2        | 3.9     | 20                    | Z:50X-500X                |     | 0.1 µm           |           |          | x      | x          |                                    | digital scale, Metronics   |                              |        |                    |       |   |  |          |
| Operations Technology<br>Ph. 908-362-6200    Fax 908-362-5966                              |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| VideoMic                                                                                   |  | VM           | 18-34      | 12-26    | 18-34        | 12-26    | 5       | 50                    | Z:25X-2,000X F:25X-2,000X |     | 0.1 µm           | x         | x        | x      | x          |                                    | Windows metrology software | x                            | x      | x                  |       |   |  | Z-trac   |
| Opti-Tech Scientific Inc.<br>Ph. 416-321-9987    Fax 416-321-8712                          |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| Vision Gauge                                                                               |  | VM           | 4-24       | 4-24     | 2-24         | 2-24     | 0.5-6   | 25                    | Z:10X-1,500X              |     | 50 µ"            | x         | x        |        | x          |                                    | all                        | x                            | x      | x                  |       |   |  | incident |
| Optical Gaging Products Inc.<br>Ph. 716-544-0400    Fax 716-544-0131                       |  |              |            |          |              |          |         |                       |                           |     |                  |           |          |        |            |                                    |                            |                              |        |                    |       |   |  |          |
| Avant Apex                                                                                 |  | VM/MM        |            |          | 4-12         | 4-12     | 4       | 22                    | F:2.5X-25X                |     | 4 µ"             | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| Avant AT5                                                                                  |  | VM/MM        |            |          | 18-30        | 18-24    | 6       | 220                   | Z:40X-200X F:2.5X-10.0X   |     | 20 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| Avant ZIP 300                                                                              |  | VM/MM        |            |          | 12           | 12       | 6       | 55                    | Z:40X-200X F:2.5X-10.0X   |     | 20 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| Avant ZIP 400/600                                                                          |  | VM/MM        |            |          | 18-24        | 18       | 6       | 45-65                 | Z:40X-200X F:2.5X-10.0X   |     | 20 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| Basic Bench Contour Projector                                                              |  | OC           | 17.8       | 4.3      | 8            | 6        | 2       | 45                    | F:10X-50X                 |     | 40 µ"            | x         | x        |        | x          |                                    | 14                         | (2) 16 digit by 2 line LCD   |        |                    |       |   |  |          |
| OQ 30B Contour Projector                                                                   |  | OC           | 32         | 8        | 15           | 10       | 3       | 550                   | F:10X-100X                |     | 40 µ"            | x         | x        |        | x          |                                    | 30                         | (2) 16 digit by 2 line LCD   |        |                    |       |   |  |          |
| QL 20 Contour Projector                                                                    |  | OC           | 32         | 8        | 15           | 9        | 3       | 550                   | F:10X-100X                |     | 40 µ"            | x         | x        |        | x          |                                    | 20                         | Di-Metric Plus geom. readout |        |                    |       |   |  |          |
| QL 30 Contour Projector                                                                    |  | OC           | 32         | 8        | 15           | 9        | 3       | 550                   | F:10X-100X                |     | 40 µ"            | x         | x        |        | x          |                                    | 30                         | Di-Metric Plus geom. readout |        |                    |       |   |  |          |
| SmartScope MVP 200/250                                                                     |  | VM/MM        |            |          | 8-12         | 6        | 6       | 45                    | Z:6.5:1 F:0.5X-2.0X       |     | 40 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| SmartScope MVP 400/600                                                                     |  | VM/MM        |            |          | 18-24        | 18       | 6       | 45-65                 | Z:6.5:1 F:0.5X-2.0X       |     | 40 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| SmartScope ZIP                                                                             |  | VM/MM        |            |          | 250          | 150      | 150     | 55                    | Z:40X-200X F:0.5X-1.5X    |     | 20 µ"            | x         | x        |        | x          |                                    |                            | x                            | x      | x                  |       |   |  |          |
| Top Bench Contour Projector                                                                |  | OC           | 17.8       | 4.3      |              | 6        | 2       | 25-55                 | F:10X- 100X               |     | 40 µ"            | x         | x        |        | x          |                                    | 14                         | (2) 16 digit by 2 line LCD   |        |                    |       |   |  |          |
| PPT Vision<br>Ph. 612-996-9500    Fax 612-996-9501<br>PPT861                               |  | VM           | 14         | 12       | 14           | 12       | 4       | 10                    | F:many                    |     | 2.5µm            |           |          |        |            | x                                  | Windows NT GUI             | x                            | x      |                    |       |   |  |          |
| Precision Measurement Co.<br>Ph. 310-279-4242    Fax 310-279-5169<br>Optical/Video Systems |  | OC/VM        | 6-60       | 6-48     | 6-60         | 6-48     | 6-12    |                       | Z:300X F:10X-100X         |     | 0.5 µm           | x         | x        |        | x          |                                    | 14-30                      | DRO, PC software             | x      | x                  | x     | x |  | coaxial  |

| Optical Dimensional Measurement Systems                                                  |  | Machine Type | Stage Size |          | Stage Travel |            |           | Lenses<br>Z=Zoom F=Fixed | Scale Resolution     | Illum.                |         |             |     | Display Readout | Op.        |          | Lighting for Video |            |               |
|------------------------------------------------------------------------------------------|--|--------------|------------|----------|--------------|------------|-----------|--------------------------|----------------------|-----------------------|---------|-------------|-----|-----------------|------------|----------|--------------------|------------|---------------|
|                                                                                          |  |              | X (in.)    | Y (in.)  | X (in.)      | Y (in.)    | Z (in.)   |                          |                      | Stage Capacity (lbs.) | Profile | Transmitted | TTL |                 | Diasecopic | External | Manual             | DCC or CNC | Top           |
| Company/Product                                                                          |  |              |            |          |              |            |           |                          |                      |                       |         |             |     |                 |            |          |                    |            |               |
| Quality Calibration Service Inc.<br>Ph. 414-256-8900 Fax 414-256-8911<br>Optek Video CMM |  | VM           |            |          |              |            |           |                          |                      |                       |         |             |     |                 |            |          |                    |            |               |
| Questar Corp.<br>Ph. 215-862-5277 Fax 215-862-0512<br>Questar RMS System                 |  | VM/MM        |            |          |              |            |           |                          |                      |                       |         |             |     |                 |            |          |                    |            |               |
| R & R Gage Co.<br>Ph. 770-409-9801 Fax 770-409-9787<br>J & L                             |  | OC           | 6          | 8        |              | 10         | 12        |                          |                      |                       |         |             |     |                 |            |          |                    |            | coaxial       |
| RAM Optical Instrumentation Inc.<br>Ph. 877-764-6397 Fax 949-224-0550<br>DataStar        |  | VM           | 14-18      | 12       |              | 12         | 6-9       | 8                        |                      |                       |         |             |     |                 |            |          |                    |            |               |
| OMIS II Series                                                                           |  | VM/MM        | 14-21      | 11-14    |              | 8-12       | 4-6       | 8                        | Z:12X-340X F:0.5X-2X | 0.25 µm               |         |             |     |                 |            |          |                    |            | quad & sector |
| OMIS III Series                                                                          |  | VM/MM        | 13-46      | 15-29    |              | 12-44      | 12-24     | 8                        | Z:30X-340X           | 0.5 µm                |         |             |     |                 |            |          |                    |            | quad light    |
| Sprint                                                                                   |  | VM           | 13         | 9        |              | 6          | 3         | 5                        | Z:30X-170X           | 0.5 µm                |         |             |     |                 |            |          |                    |            | quad light    |
| S-T Industries Inc.<br>Ph. 800-326-2039 Fax 507-375-4503<br>2400/2450 Optical Comparator |  | OC           | 14-24      | 5-10     |              | 8-12       | 4-8       | 3-4                      | F:10X-100X           | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| 3500 Optical Comparator                                                                  |  | OC           | 16         | 5        |              | 7          | 4         | 2.5                      | F:5X-100X            | 2 µm                  |         |             |     |                 |            |          |                    |            |               |
| 3650 Optical Comparator                                                                  |  | OC           | 5          | 20       |              | 12         | 5         | 2.5                      | F:5X-100X            | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| 4400/4600 Optical Comparator                                                             |  | OC           | 14-16      | 6-10     |              | 6-8        | 2-4       | 4                        | F:5X-100X            | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| 5600 Optical Comparator                                                                  |  | OC           | 35         | 8        |              | 12         | 9         | 3                        | F:5X-100X            | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| 8600 Video Inspection System                                                             |  | VM           | 14         | 10       |              | 8          | 4         | 5                        | Z:6:1                | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| Trigon Adcotech<br>Ph. 510-657-9370 Fax 510-657-9377<br>SMD 9000                         |  | VM           | 2          | 2        |              |            |           |                          |                      | 60 µ"                 |         |             |     |                 |            |          |                    |            |               |
| UBM Corp.<br>Ph. 713-974-5050 Fax 713-260-5903<br>Laser Scan                             |  | MM           | 18         | 18       |              | 18         | 18        | 2                        | F:1 mm               | 0.1 µm                |         |             |     |                 |            |          |                    |            | back light    |
| Veeco Metrology Group<br>Ph. 800-366-9956 Fax 520-294-1799<br>Wyko NT2000 Profiler       |  | MM           | 8          | 8        |              | ±4         | ±4        | 0.4                      | Z:1.5X-100X          | 3 Å                   |         |             |     |                 |            |          |                    |            |               |
| Vision Engineering Inc.<br>Ph. 860-355-3776 Fax 860-355-0712<br>Dynascope Ultra          |  | OC/MM        | up to 8    | up to 6  |              | up to 8    | up to 6   |                          | F:up to 100X         | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| Series 5 Dynascope                                                                       |  | OC/MM        | up to 16   | up to 12 |              | 16         | 12        | 2                        | F:up to 1,000X       | 1 µm                  |         |             |     |                 |            |          |                    |            |               |
| Workshop Dynascope                                                                       |  | OC/MM        | 2-6        | 2-6      |              | up to 6    | up to 6   | up to 2                  | F:up to 50X          | 2 µm                  |         |             |     |                 |            |          |                    |            |               |
| Werth America Inc.<br>Ph. 877-937-8426 Fax 716-667-2725<br>Inspector FQ                  |  | VM           |            |          |              | 15.7-137.8 | 15.7-68.9 | 7.9-23.7                 | Z:10:1 F:1X-100X     | 0.5 µm                |         |             |     |                 |            |          |                    |            | quadrant      |
| Scope-Check                                                                              |  | VM           |            |          |              | 7.9-15.7   | 5.9       | 5.9                      | Z:10:1 F:1X-100X     | 0.5 µm                |         |             |     |                 |            |          |                    |            | quadrant      |
| Video-Check IP                                                                           |  | VM           |            |          |              | 9.8-137.8  | 4.9-68.9  | 2-23.7                   | Z:10:1 F:0.2X-100X   | 0.01 µm               |         |             |     |                 |            |          |                    |            | quadrant      |
| Video-Check Q8                                                                           |  | VM           |            |          |              | 7.9-15.7   | 7.9       | 7.9                      | Z:10:1 F:1X-100X     | 0.5 µm                |         |             |     |                 |            |          |                    |            | quadrant      |



# Optical Dimensional Measurement Directory

## Acu-Gage Systems

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[www.dataoptics.com](http://www.dataoptics.com)

Data Optics Inc. manufactures precision optical research equipment and optical test instruments. Products include optical benches, table rails, carriers, rod mounts, rod-mounted accessories, spatial filters, environmental isolation enclosures, fringe control systems, the Model C optical tester (Ronchi-type), the Super Gage linear measurement tool and the Silicon Eyeball laboratory camera.

## Deltronic Corp.

3900 W. Segerstrom  
Santa Ana, CA 92704  
Ph. 800-451-6922 Fax 800-969-3358  
[www.deltronic.com](http://www.deltronic.com)

## Dimensional Control Corp. (Northern California)

1403 Industrial Road  
San Carlos, CA 94070  
Ph. 650-591-0365 Fax 650-591-9087  
[www.dimensionalcontrol.com](http://www.dimensionalcontrol.com)  
Dimensional Control Corp. is a measuring systems distributor and representative. We specialize in vision systems, contact CMMs, contour, form and surface analysis. In addition, we offer laser scanning and sensor devices. A full compliment of mechanical, air and electronic gaging equipment completes our measuring cornucopia. Visit our showroom.

## Dorsey Gage Co.

253 Mansion St.  
Poughkeepsie, NY 12601  
Ph. 914-454-3111 Fax 914-454-3140

## Flexbar Machine Corp.

250 Gibbs Road  
Islandia, NY 11722  
Ph. 800-879-7575 Fax 631-582-8487  
[www.flexbar.com](http://www.flexbar.com)  
Flexbar is a designer, manufacturer and supplier of standard and unique products for machine shops and other manufacturing industries. These products include a number of quality precision measuring instruments, machine tool accessories, video inspection and measurement systems, and a variety of metrology-grade casting materials.

## Fryer Co. Inc.

11177 E. Dundee Road  
Huntley, IL 60142  
Ph. 847-669-2000 Fax 847-669-2056  
[www.fryerco.com](http://www.fryerco.com)  
Provider of equipment to solve measuring and inspection needs. Equipment includes Nikon's Veritas automated 3-D video measuring system, optical comparators, toolmakers' measurescopes, stereo microscopes and digital image archiving/annotating systems. Also provides maintenance and calibration (Guide25-A2LA).

## Gaertner Scientific Corp.

8228 McCormick Blvd.  
Skokie, IL 60076  
Ph. 847-673-5006 Fax 847-673-5009  
[www.gaertnerscientific.com](http://www.gaertnerscientific.com)

## GENX Corp.

1116 W. Centre, Suite 2  
Kalamazoo, MI 49024  
Ph. 616-323-3861 Fax 616-323-3861  
GENX Corp. (formerly Covet-Clausing comparator line) offers seven models of 14-in. optical comparators. Various electronics, including PC-based systems, are available. Steel floor cabinet design in conjunction with cast-iron measuring surfaces and platforms ensure durability and accuracy. High-intensity projection light and 1,000 watts of surface illumination provide bright crisp images.

## GSI Lumonics Inc.

1650 N. Voyager Ave.  
Simi Valley, CA 93063  
Ph. 805-578-5000 Fax 805-578-5249  
[www.gsilumonics.com](http://www.gsilumonics.com)

## Hi-Scope Systems Co.

10 McKinley St.  
Closter, NJ 07624  
Ph. 877-447-2673 Fax 201-768-3944  
[www.hiscopesystems.com](http://www.hiscopesystems.com)  
3-D Hi-Scope video microscope system for visual inspection and measurement for any industries. Dynamic oblique angle viewing and 360Y rotation display natural 3-D image right on the monitor. High resolution and great depth of field image are perfect for quality assurance, process control, failure analysis and measurement. Video ready to video printer, VCR or PC. Magnification range from 5X to 600X for 3-D rotary viewing and up to 4000X for straight viewing.

## Infinity Photo-Optical Co.

2530 Frontier Ave.  
Boulder, CO 80301  
Ph. 303-440-4544 Fax 303-440-4144  
[www.infinity-usa.com](http://www.infinity-usa.com)  
Infinity Photo-Optical Co. manufactures long-distance microscopes, continuously focusable microscopes, macro systems, internal-focusing devices and multi-telescopic systems for industrial inspection, process/product monitoring, machine vision, QC, advanced imaging, noncontact gaging/inspection and laser/biomedical research. Infinity's clients range from small laboratories to Fortune 500 companies, aerospace industries, research centers, universities and government agencies.

## J & L Metrology Co. Inc.

P.O. Box 2001  
Springfield, VT 05156  
Ph. 800-922-8808 Fax 802-886-2700  
Original manufacturer of optical comparators since 1919. Full line of comparators and service.

## JMAR Precision Systems Inc.

9207 Eton Ave.  
Chatsworth, CA 91311  
Ph. 800-793-0179 Fax 818-700-8984  
[www.jmar-psi.com](http://www.jmar-psi.com)  
JMAR Precision Systems Inc. designs and manufactures video CMM measurement and inspection systems, motion control/positioning systems and laser processing systems used worldwide. JPST's leading edge technologies are used by semiconductor and microelectronics

industry firms for such applications as wafer defect/general BGA and solder bump measurements, laser scanning/cutting, and precision positioning.

## Mahr Federal Inc.

11435 Williamson Road  
Cincinnati, OH 45241  
Ph. 800-969-1331 Fax 513-489-2020  
[www.mahrusa.com](http://www.mahrusa.com)

## Measure-All Inc.

447 Nilles Road  
Fairfield, OH 45014  
Ph. 800-758-2376 Fax 513-829-1105  
[www.measure-all.com](http://www.measure-all.com)  
Provide gaging and measuring solutions in all types of industry. We represent most of the major gage manufacturers and can supply you with standard or special gaging equipment to solve your measurement needs.

## Measurement Center Corp.

1081-F N. Shepard St.  
Anaheim, CA 92806  
Ph. 714-632-8511 Fax 714-632-3628  
Specialists in noncontact measuring systems. Optical, video, laser, capacitance. Standard and special turnkey systems. Specializing in data-collection and analysis systems.

## Metron Optics Inc.

813 Academy Drive, Box 690  
Solana Beach, CA 92075  
Ph. 858-755-4477 Fax 858-755-4752  
[metronusa.com](http://metronusa.com)  
Metron Optics Inc. manufactures optical inspection instruments for the electronics and medical industries. Products include: Metron Mini Mirrors for the electronics, medical, dental and industrial fields; Metron Marker pens in a variety of special ink formulas (removable, permanent, solvent resist, solvent washoff, and others); 3-D scanners; circuit board comparators.

## Micro-Metric Inc.

1020 Commercial St. #103  
San Jose, CA 95112-1404  
Ph. 408-452-8505 Fax 408-452-8412  
[www.micro-metric.com](http://www.micro-metric.com)  
High-accuracy, noncontact dimensional measuring and positioning systems specializing in multi-axis coordinate measuring microscopes, air bearing positioning systems and critical dimension measuring systems.

## Micro-Technic Instruments Inc.

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Teaneck, NJ 07666  
Ph. 800-692-8252 Fax 201-692-7941  
[www.micro-technic@worldnet.att.net](http://www.micro-technic@worldnet.att.net)  
Specializing in optical inspection instruments for industry. Featuring machine vision systems for automatic inspection and process control of production equipment. Also, special capability in analog and digital video for inspection and material analysis including metallography. Sales engineers for Leica Industrial Microscopes. We are your full-service inspection equipment supplier, from eye loupes to CMMs.

## Micro-Vu Corp.

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[www.microvu.com](http://www.microvu.com)  
Micro-Vu offers precision measuring systems: automated machine-vision

measuring systems, video measuring systems, optical comparators and CMMs.

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2661 Clearview Road  
Allison Park, PA 15101  
Ph. 412-492-0200 Fax 412-492-0202

**Mycrona Inc.**

14777 Keel St.  
Plymouth, MI 48170  
Ph. 734-453-5880 Fax 734-453-4076  
www.mycrona.com

**Nikon Inc.**

1300 Walt Whitman Road  
Melville, NY 11747  
Ph. 631-547-8500 Fax 631-547-0306  
www.nikonusa.com  
Nikon Inc. is a manufacturer and distributor of optical inspection equipment. Products include stereo microscopes, autocollimators, optical comparators, tool makers microscopes and automated video inspection systems.

**Olympus America Inc.**

Two Corporate Center Drive  
Melville, NY 11747  
Ph. 800-446-5967 Fax 516-844-5112  
www.olympus.com  
Manufacturer of optical microscopes—metallurgical, stereo, measuring, inspection, LCD, metallographic and photomicroscopes. Microscope accessories, optical and mechanical components, digital cameras, and imaging equipment.

**Operations Technology Inc. (OPTEK)**

P.O. Box 408  
Blairstown, NJ 07825  
Ph. 908-362-6200 Fax 908-362-5966  
www.optek.net

**Optem, Avimo Precision Instruments**

78 Schuyler Baldwin Drive  
Fairport, NY 14450  
Ph. 716-223-2370 Fax 716-223-3413  
www.optemintl.com  
Optem designs, develops and manufactures custom microscope-type optical systems for a variety of applications. Also available are high-frequency overhead sort optical systems, CCTV (video) couplers and Brinell microscopes. Both zoom and fixed lens optical systems are available as well.

**Opti-Tech Scientific Inc.**

421 Nugget Ave., Suite 4  
Scarborough, ON M1S 4L8, Canada  
Ph. 416-321-9987 Fax 416-321-8712  
www.opti-tech.on.ca

Opti-Tech Scientific Inc. was formed as a service/calibration company and has since evolved into a leading supplier of microscopes, both optical and video, for inspection and measurement. Opti-Tech carries microscopes by major manufacturers such as Leica and Mitutoyo. Products by Hitachi and Fostec. Imaging and measurement software by VisionX.

**Optical Gaging Products Inc.**

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Ph. 800-647-4243 Fax 716-544-0131  
www.ogpnet.com

**Penco Precision**

P.O. Box 8105  
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Ph. 847-446-3606 Fax 847-446-3645  
Manufacturer's representative carrying optical and mechanical inspection equipment. Comparators, CMMs, microscopes, video systems, thread gages and hand tools.

**PPT Vision Inc.**

12988 Valley View Road  
Eden Prairie, MN 55344  
Ph. 612-996-9500 Fax 612-996-9501  
www.pptvision.com  
PPT Vision Inc. designs, manufactures, markets and integrates machine vision-based automated inspection systems for a broad range of industry categories, including manufacturers of automotive and electronic components, semiconductors, medical devices, pharmaceuticals and consumer goods.

**Precision Measurement Co.**

18 Terrace Road  
Norristown, PA 19401  
Ph. 610-279-4242 Fax 610-279-5169  
www.quikpage.com/P/premeas

**Quality Calibration Service Inc.**

10205 W. Greenfield Ave.  
West Allis, WI 53214  
Ph. 414-256-8900 Fax 414-256-8911  
www.qualitycalibration.com  
A2LA-accredited/ISO 9002-certified full-service metrology laboratory offering dimensional inspection, hard-gage calibration, mechanical and electronic calibration and repair, field service, gage sales, and gage management software (GAGEtrak by Cybermetrics).

**Quality Control Co.**

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Distributor inspection instruments, dimensional measuring, optical video, physical testers. All brands of precision tools. Specializing in noncontact gaging, flexible and rigid borescopes, hardness testers, plating thickness, and thread gaging. Quality assurance fundamentals training, on-site seminars. Illustrated overheads.

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Ph. 800-247-9607 Fax 215-862-0512  
www.questar-corp.com

**R & R Gage Co.**

6699-D Peachtree Industrial Blvd.  
Norcross, GA 30092  
Ph. 770-409-9801 Fax 770-409-9787  
www.rrgage.com

**RAM Optical Instrumentation Inc.**

1791 Deere Ave.  
Irvine, CA 92606  
Ph. 877-764-6397 Fax 949-224-0550  
www.ramoptical.com

**S-T Industries Inc.**

301 Armstrong Blvd. N.  
St. James, MN 56081  
Ph. 800-326-2039 Fax 507-375-4503  
www.stindustries/thomasregister.com  
Manufacturer of high-precision measuring instruments (micrometers, etc.) and optical comparators and video inspection systems under the brand name Scherr-Tumico. Also, custom-made measuring instruments.

**Suburban Tool**

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Auburn Hills, MI 48326  
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www.subtool.com  
Manufactures precision work-holding and inspection tools such as optical comparators, sine plates, tombstones, angle plates, index fixtures, v-blocks, magnetic chucks and straight edges. In business for more than 40 years, we keep many products in stock or build tools to specifications. Known for quality, we maintain quick turnaround and competitive pricing.

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www.trigonadcotech.com  
Trigon Adcotech is a leading manufacturer of through-hole and surface-mount component handling modules and systems.

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www.ubmusa.com

**Veeco Metrology Group**

2650 E. Elvira Road  
Tucson, AZ 85706  
Ph. 800-366-9956 Fax 520-294-1799  
www.veeco.com

Veeco Metrology, is a division of Veeco Instruments. Veeco is a worldwide leader in metrology tools for the optics, industrial/research, data storage, and semiconductor markets, and etch and deposition process equipment.

**Vision Engineering Inc.**

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www.visioneng.com

Patented noncontact measurement Dynascopes offer the comfortable viewing of optical comparators combined with the high resolution of toolmakers' microscopes. Available in two- or three-axis configurations, the units can be optimized as you select from a variety of magnifications, illuminations and stage sizes to meet your accuracy and repeatability requirements.

**Visual Precision Inc.**

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www.vpcharts.com  
Manufacturer of optical comparator charts, screens and overlays; standard and custom images in glass, vinyl and mylar. Optical calibration standards, precision glass scales, comparator fixtures and sight gages. Certification services also available.

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2070 Airport Road  
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New and used precision measuring equipment, including CMMs, optical comparators, vision systems, surface plates, gage blocks, fixed-limit gages and more. A2LA calibration services available on many types of measuring equipment. Repairs, upgrades and retrofits available.

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Ph. 800-422-2283 Fax 603-626-1277  
www.acu-gage.com  
Acu-Gage Systems manufactures one-, two- and three-axis noncontact video-based measuring systems. Manual to fully automated machines in sizes from 8 in. x 8 in. to 48 in. x 96 in. Automation options are field retrofitable. Customized features, NIST traceability, and full maintenance and annual recalibration service.

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Ph. 800-292-3378 Fax 408-434-5119  
www.adept.com  
Adept Technology manufactures a family of SCARA robots, linear modules, motion controllers and simulation software for automated small parts assembly and material handling. Adept's products serve the automotive, electronics, semiconductor, telecommunications, pharmaceutical, medical, appliance and food-processing industries.

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Old Mill Building  
10 Orange St.  
Marcellus, NY 13108  
Ph. 315-673-0164 Fax 315-673-9800  
www.aeinorthamerica.com

Articulated Industrial Videoimaging Scope—System includes four-way articulating flexible probe with CCD imaging chip in the tip, control unit with integral light source and monitor. PL-3000-K—150-watt fiber optic illuminator available with a variety of delivery systems. SnakeEye—remote video inspection system complete with camera, illumination, LED monitor, rigid wand and more.

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West Chicago, IL 60185  
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www.atiquality.com

**Boeckeler Instruments Inc.**

4650 S. Butterfield Drive  
Tucson, AZ 85714  
Ph. 800-552-2262 Fax 520-745-0004  
www.boeckeler.com

Boeckeler Instruments Inc. is a leading manufacturer of video measuring, video marking, and precision measuring devices and software. Boeckeler's newest product, the VIA-S200—Windows-based archiving and transmittal software with measuring and marking, allows users to store images, transmit them over the Internet or a LAN, measure samples, annotate details, and more.

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8000 E. 23rd St.  
Kansas City, MO 64129  
Ph. 877-632-7873 Fax 816-241-1945  
[www.brunsonkcc.com](http://www.brunsonkcc.com)

Brunson is your one stop for industrial measurement solution products and services. Among our products are Spatial Analyzer (the new standard in metrology software), the API laser measuring tracking system, and optical tooling instruments and accessories. We offer on-site field engineering, training, repair and rental services.

#### **Burton Precision Co. Inc.**

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Comstock Park, MI 49321  
Ph. 800-358-4266 Fax 616-784-4368  
[www.burtonprecision.com](http://www.burtonprecision.com)

#### **Clemex Technologies Inc.**

800 Guimond  
Longueuil, PQ J4G 1T5, Canada  
Ph. 888-651-6573 Fax 450-651-9304  
[www.clemex.com](http://www.clemex.com)

#### **Cognex Corp.**

One Vision Drive  
Natick, MA 01760  
Ph. 508-650-3000 Fax 508-650-3344  
[www.cognex.com](http://www.cognex.com)  
Cognex Corp. designs, develops, manufactures and markets machine vision systems, or computers that can "see." Cognex is the world's leader in the machine vision industry, having shipped more than 100,000 machine vision systems to date. Cognex has a modular vision systems division and a surface inspection systems division.

#### **Colorado Video Inc.**

6205 Lookout Road, Suite G  
Boulder, CO 80301  
Ph. 303-530-9580 Fax 303-530-9569  
[www.colorado-video.com](http://www.colorado-video.com)

Colorado Video manufactures image processing, analysis and storage equipment. Hardware is available for point, profile, or area intensity measurement, dimensional measurement, and image comparison. Contrast enhancement, shading correction and image reversal is also available. Computer-free frame grabbers are ideal for process monitoring, stroboscopic and low-light systems. Video cross hair and line generators are popular Colorado Video products.

#### **Complex Inc. Imaging Systems**

705 Thomson Park Drive  
Cranberry Township, PA 16066  
Ph. 724-772-5277 Fax 724-772-5278  
[www.cimaging.net](http://www.cimaging.net)  
SimplePCI uses the latest technology to produce a low-cost, high-performance image analysis software product. The software runs on a standard PC on Windows 95/NT and takes advantage of Intel MMX technology and hardware acceleration when available. Careful

attention has been taken to support a wide range of cameras and automated peripheral devices.

#### **Computer Recognition Systems Inc.**

639 Massachusetts Ave.  
Cambridge, MA 02139  
Ph. 617-491-7665 Fax 617-491-7753  
[www.crs-vision.com](http://www.crs-vision.com)

#### **Coreco**

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St. Laurent, PQ H4T 1V8, Canada  
Ph. 800-361-4914 Fax 514-333-1388  
[www.coreco.com](http://www.coreco.com)

Coreco is a leading developer of innovative computer hardware and software products serving the machine vision, scientific and medical imaging markets. Coreco offers the latest in DSP and VGA technology, low-cost frame grabbers for acquisition and display, high-end image processors, and DSP hardware and software libraries for imaging/signal processing.

#### **CR Technology**

125 B Columbia  
Aliso Viejo, CA 92656  
Ph. 949-448-0443 Fax 949-448-0445  
[www.crtechnology.com](http://www.crtechnology.com)

#### **Design Technology Corp.**

5 Suburban Park Drive  
BillERICA, MA 01821  
Ph. 978-663-7000 Fax 978-663-6841  
[www.design-technology.com](http://www.design-technology.com)

#### **Don Richetts Co. Inc.**

828 E. Valley Blvd.  
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Don Richetts Co., a distributor of quality control/inspection equipment. Featuring name brands: Deltronic, Brown & Sharpe, Mitutoyo, Pratt & Whitney, Starrett, Swanson Tool, Van Keuren, Vermont and Webber Gage. Product index: optical comparators, video systems, micrometers, indicators, plain and thread plug gages, gage blocks, electronic measuring, surface finish, supermicrometers, and ID/OD machines.

#### **EMCO InterTest Inc.**

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Ph. 973-927-2900 Fax 973-927-8004  
[www.emco.net](http://www.emco.net)

#### **EPiX Inc.**

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Ph. 847-465-1818 Fax 847-465-1919  
[www.epixinc.com](http://www.epixinc.com)  
Manufacturer of PCI and ISA business image processing hardware and software for automated inspection/sorting/quality control, measurement, document processing and scientific/medical imaging; used to digitize, process, and display images from standard and nonstandard cameras. Menu-driven image-processing packages as well as "C" libraries are available for W95/98, WNT and DOS.

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#### **Flexbar Machine Corp.**

250 Gibbs Road  
Islandia, NY 11722  
Ph. 800-879-7575 Fax 631-582-8487  
[www.flexbar.com](http://www.flexbar.com)

Flexbar is a designer, manufacturer and supplier of standard and unique products for machine shops and other manufacturing industries. These products include a number of quality precision measuring instruments, machine tool accessories, video inspection and measurement systems, and a variety of metrology-grade casting materials.

#### **Futec International Corp.**

212 N. Center Drive  
North Brunswick, NJ 08902  
Ph. 732-821-4555 Fax 732-821-6655  
[www.futec1.com](http://www.futec1.com)

Futec produces automatic defect-detection systems. These line-scan camera-based systems inspect webs, sheets or blanks and can handle either printed or unprinted materials. Optical defects such as gels, carbons, streaks and printing defects can be detected. Inspection coverage is truly 100 percent. Outputs for controlling downstream reject or marking devices are standard.

#### **GSI Lumonics Inc.**

1650 N. Voyager Ave.  
Simi Valley, CA 93063  
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[www.gsilumonics.com](http://www.gsilumonics.com)

#### **i2S The Line Scan Co.**

P.O. Box 9028  
Niskayuna, NY 12309  
Ph. 888-842-7872 Fax 518-346-4134  
[www.i2s-linescan.com](http://www.i2s-linescan.com)  
We offer a range of products and solutions for line-scan and web inspection applications. We manufacture line-scan acquisition/processing boards, cameras, software and systems. More than 20 years' experience in line-scan technology.

#### **Imagenation Corp.**

10220 S.W. Nimbus, Suite K5  
Portland, OR 97223  
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[www.imagenation.com](http://www.imagenation.com)

#### **Infinity Photo-Optical Co.**

2530 Frontier Ave.  
Boulder, CO 80301  
Ph. 303-440-4544 Fax 303-440-4144  
[www.infinity-usa.com](http://www.infinity-usa.com)  
Infinity Photo-Optical Co. manufactures long-distance microscopes, continuously focusable microscopes, macro systems, internal-focusing devices and multi-telecentric systems for industrial inspection, process/product monitoring, machine vision, QC, advanced imaging, noncontact gaging/inspection and laser/biomedical research. Infinity's clients range from small laboratories to Fortune 500 companies, aerospace industries, research centers, universities and government agencies.

#### **IPS**

2661 Clearview Road  
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Ph. 412-492-0200 Fax 412-492-0202  
Manufacturer of machine vision systems and software using three basic platforms consisting of gray scale processing, 3-D processing and color processing. Systems are used in most large manufacturers for quality and process control as well as for research and testing. IPS has been the leader for system innovation since 1985.

#### **Javelin Systems**

23456 Hawthorne Blvd., Building 5  
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Ph. 800-421-2716 Fax 310-378-0283  
[www.javelin.com](http://www.javelin.com)

#### **JMAR Precision Systems Inc.**

9207 Eton Ave.  
Chatsworth, CA 91311  
Ph. 800-793-0179 Fax 818-700-8984  
[www.jmar-psi.com](http://www.jmar-psi.com)  
JMAR Precision Systems Inc. designs and manufactures video CMM measurement and inspection systems, motion control/positioning systems and laser processing systems used worldwide. JPSSI's leading edge technologies are used by semiconductor and microelectronics industry firms for such applications as wafer defect/general BGA and solder bump measurements, laser scanning/cutting, and precision positioning.

#### **KAPPA Opto-Electronics Inc.**

911 S. Primrose Ave. #P  
Monrovia, CA 91016  
Ph. 626-256-4343 Fax 626-256-6484  
[www.kappa.de](http://www.kappa.de)  
KAPPA offers systems for inspection and quality control tasks in various environments. Our products include easy-to-use small video cameras, high-end digital video systems and video microscopes. We complement our hardware with computer programs for image measuring and annotation and image archiving.

#### **The L.S. Starrett Co.**

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Suite 100  
Kennesaw, GA 30144  
Ph. 770-590-7737 Fax 770-590-7511  
[www.starrett.com](http://www.starrett.com)

#### **Mahr Federal Inc.**

11435 Williamson Road  
Cincinnati, OH 45241  
Ph. 800-969-1331 Fax 513-489-2020  
[www.mahrusa.com](http://www.mahrusa.com)

#### **Micro-Metric Inc.**

1020 Commercial St. #103  
San Jose, CA 95112-1404  
Ph. 408-452-8505 Fax 408-452-8412  
[www.micro-metric.com](http://www.micro-metric.com)  
High-accuracy, noncontact dimensional measuring and positioning systems specializing in multi-axis coordinate measuring microscopes, air bearing positioning systems and critical dimension measuring systems.

#### **Micro-Tech Instruments Inc.**

319 Queen Anne Road  
Teaneck, NJ 07666  
Ph. 800-692-8252 Fax 201-692-7941  
[micro-technic@worldnet.att.net](mailto:micro-technic@worldnet.att.net)  
Specializing in optical inspection instruments for industry. Featuring machine vision systems for automatic inspection and process control of production equipment. Also, special capability in analog and digital video for inspection and material analysis including metallography. Sales engineers for Leica Industrial Microscopes. We solve difficult inspection problems. We are your full-service inspection equipment supplier, from eye loupes to CMMs.

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Windsor, CA 95492-9779  
Ph. 707-838-6272 Fax 707-838-3985  
[www.microvu.com](http://www.microvu.com)



Micro-Vu offers precision measuring systems: automated machine-vision measuring systems, video measuring systems, optical comparators and CMMs.

#### **Minolta Corp.**

101 Williams Drive  
Ramsey, NJ 07446  
Ph. 888-473-2656 Fax 201-825-4374  
[www.minoltausa.com](http://www.minoltausa.com)  
Minolta Corp. manufactures and markets a complete line of color measurement equipment and software. We feature a full line of benchtop and hand-held spectrophotometers as well as colorimeters. All products are ISO 9001-certified. Full technical support and education/training available through our Light & Color Application Center.

#### **Mitutoyo/MTI Corp.**

965 Corporate Blvd.  
Aurora, IL 60504  
Ph. 630-820-9666 Fax 630-978-5394  
[www.mitutoyo.com](http://www.mitutoyo.com)  
Mitutoyo America Corp. sells and services more than 5,000 precision measuring tools and instruments for dimensional measurement, including calipers, micrometers, indicators, DROs CMMs, vision measuring systems and form-measuring equipment.

#### **MSI Technical Sales**

P.O. Box 9028  
Schenectady, NY 12309  
Ph. 518-346-7136 Fax 518-346-4134  
Distributes high-speed and high-resolution vision products including line-scan, 2-D and 3-D systems. Sells cameras, lenses, laser sensors, fiber optic lighting and machine-vision image-processing software. Provides automated inspection systems utilizing vision, laser and other noncontact technologies.

#### **Mycrona Inc.**

14777 Keel St.  
Plymouth, MI 48170  
Ph. 734-453-5880 Fax 734-453-4076  
[www.mycrona.com](http://www.mycrona.com)

#### **National Instruments**

11500 N. Mopac Expressway  
Austin, TX 78759  
Ph. 800-433-3488 Fax 512-683-9300  
[www.ni.com](http://www.ni.com)

#### **Navitar Inc.**

200 Commerce Drive  
Rochester, NY 14623  
Ph. 800-828-6778 Fax 716-359-4999  
[www.navitar.com](http://www.navitar.com)

Navitar designs and manufactures a complete line of high-quality optical inspection products. Our Zoom 6000 and TenX video microscope imaging systems are used in semiconductor manufacturing, noncontact measurement, industrial inspection and medical industries.

#### **Omron Electronics**

One E. Commerce Drive  
Schaumburg, IL 60173  
Ph. 800-556-6766 Fax 847-843-8087  
[www.info.omron.com](http://www.info.omron.com)  
Omron manufactures a wide variety of automation systems and control components. Products include PCB relays, low-signal relays, SSRs, switches, photomicrosensors, PLCs, sensors, vision systems, temperature controllers, timers and counters.

#### **Operations Technology Inc. (OPTEK)**

P.O. Box 408  
Blairstown, NJ 07825  
Ph. 908-362-6200 Fax 908-362-5966  
[www.optek.net](http://www.optek.net)

#### **Optical Gaging Products Inc.**

850 Hudson Ave.  
Rochester, NY 14621  
Ph. 800-647-4243 Fax 716-544-0131  
[www.ogpnet.com](http://www.ogpnet.com)

#### **Penco Precision**

P.O. Box 8105  
Northfield, IL 60093  
Ph. 847-446-3606 Fax 847-446-3645  
Manufacturer's representative carrying optical and mechanical inspection equipment. Comparators, CMMs, microscopes, video systems, thread gages and hand tools.

#### **Perceptron Inc.**

47827 Halyard Drive  
Plymouth, MI 48170  
Ph. 800-333-7753 Fax 734-414-4700  
[www.perceptron.com](http://www.perceptron.com)  
Perceptron is an industry leader in the data collection, analysis, management and control software technologies required to put the information it produces to work controlling processes in real time.

#### **Precision Tool Distributors Inc.**

553 Weddell Drive  
Sunnyvale, CA 94089  
Ph. 888-747-1254 Fax 408-747-0886  
[www.pretool.com](http://www.pretool.com)  
Specialists in dimensional gaging and inspection. Our showroom features everything in inspection from calipers to CMMs. Services include a fully equipped contract inspection lab featuring Zeiss high-accuracy CMMs and video-based optical measurement systems.

#### **QA Productivity Systems**

236 Alpine Drive  
Rochester, NY 14618  
Ph. 716-381-9735 Fax 716-381-8317  
A manufacturer's representative organization dealing with dimensional measurement equipment, specializing in vision, multiple-sensor CMM technology and lasers. Also the manufacturer of the Perform-A-Check system for the calibration of CMMs.

#### **Quality Control Solutions Inc.**

43339 Business Park Drive # 101  
Temecula, CA 92590  
Ph. 909-676-1616 Fax 909-676-8970  
[www.qc-solutions.com](http://www.qc-solutions.com)

#### **Questar Corp.**

6204 Ingham Road  
New Hope, PA 18938  
Ph. 800-247-9607 Fax 215-862-0512  
[www.questar-corp.com](http://www.questar-corp.com)

#### **R.K.B. Opto-Electronics Inc.**

6677 Moore Road  
Syracuse, NY 13211  
Ph. 800-513-3945 Fax 315-455-8216  
[www.rkbopto.com](http://www.rkbopto.com)

#### **RAM Optical Instrumentation**

1791 Deere Ave.  
Irvine, CA 92606  
Ph. 877-764-6397 Fax 949-224-0550  
[www.ramoptical.com](http://www.ramoptical.com)

#### **Redlake Imaging Corp.**

18450 Technology Drive, Suite A  
Morgan Hill, CA 95037  
Ph. 800-453-1223 Fax 408-778-6256  
[www.redlake.com](http://www.redlake.com)

Manufacturer of the MotionScope product lines of portable, easy-to-use, high-speed digital cameras designed to help troubleshoot high-speed canning, bottling, labeling and packaging problems.

Engineers record the high-speed event and play back the images in slow motion, enabling them to see, analyze and resolve the problem.

#### **Retina Systems Inc.**

150 Day St.  
Seymour, CT 06483  
Ph. 203-881-1311 Fax 203-881-1494  
[www.retinasystems.com](http://www.retinasystems.com)  
Retina Systems manufactures laser and vision inspection systems for 100-percent sorting, gaging and process control for fastener, bearing, rivet, molding, medical, electronics and communications industries. We provide inline, online and stand-alone turnkey system with our standard modules or custom designs utilizing state-of-the-art technology.

#### **Riegl USA**

8516 Old Winter Garden Road, Suite 101  
Orlando, FL 32835  
Ph. 407-294-2799  
[www.rieglusa.com](http://www.rieglusa.com)

#### **RVSI Acuity CiMatrix**

5 Shawmut Road  
Canton, MA 02021  
Ph. 800-646-6664 Fax 781-828-8942  
[www.rvsi.com](http://www.rvsi.com)  
RVSI Acuity CiMatrix, the inventor of Data Matrix symbology and Code 128, is a world leader in supplying machine vision systems, bar code and advanced two-dimensional symbology readers for manufacturing and distribution environments.

#### **S-T Industries Inc.**

301 Armstrong Blvd. N.  
St. James, MN 56081  
Ph. 800-326-2039 Fax 507-375-4503  
[www.stindustries/thomasregister.com](http://www.stindustries/thomasregister.com)  
Manufacturer of high-precision measuring instruments (micrometers, etc.) and optical comparators and video inspection systems under the brand name Scherr-Tumico. Also, custom-made measuring instruments.

#### **Sony Precision Technology America Inc.**

20381 Hermana Circle  
Lake Forest, CA 92630  
Ph. 949-770-8400 Fax 888-910-7669  
[www.sonypt.com](http://www.sonypt.com)

Sony Precision Technology America Inc. is a leading provider of precision measurement devices, including data recorders, linear encoders, digital linear gages, feedback scales, digital readout displays and CNCs for enduser and OEM applications. The company independently develops measurement and controller devices under stringent quality standards for a wide variety of industries, including aerospace and automotive.

#### **Stenning Instruments Inc.**

604 Via Del Cerro  
Camarillo, CA 93010-8439  
Ph. 805-484-4996 Fax 805-484-5337  
Manufacturers of weld-monitoring camera systems for viewing welding operations from remote locations, providing push-button, motorized control overall lens functions and filter density. Miniature pan and tilt heads. Liquid lightguides for UV transmission, visible and near-infrared light.

#### **Systronics Inc.**

4357 Park Drive, Suite J  
Norcross, GA 30093  
Ph. 800-655-7776 Fax 770-449-0399  
[www.systronics-inc.com](http://www.systronics-inc.com)

#### **Trigon Adcotech**

41332 Christy St.  
Fremont, CA 94538  
Ph. 510-657-9370 Fax 510-657-9377  
[www.trigonadcotech.com](http://www.trigonadcotech.com)  
Trigon Adcotech is a leading manufacturer of through-hole and surface-mount component handling modules and systems. We offer a broad range of sales, service and support for our device inspection, handling and marking products.

#### **Vision Components**

478 Putnam Ave., Suite 2  
Cambridge, MA 02139-4772  
Ph. 617-492-1252 Fax 617-492-1252  
[www.vision-components.de](http://www.vision-components.de)  
The VC Series of industrial "smart" cameras include complete machine vision systems with up to 8 MB of RAM, 2 MB of Flash EPROM and a powerful DSP. The cameras feature optically isolated I/O (Four 12-24V inputs and four 150 mA outputs). Color, progressive scan and megapixel models are available.

#### **Vision Intelligence Products Inc.**

80 Broadway  
Cresskill, NJ 07626  
Ph. 800-522-3842 Fax 201-567-7470  
Dedicated machine vision systems having part family flexibility. Microprocessor-based, these systems are multi-camera capable. Provided are signals for activation of devices and signals. SPC-capable and RS-232 output. Complete systems include fixturing and parts feeder capability. Motion control, lighting, cameras lenses and image processing are all provided.

#### **Volpi Manufacturing USA**

5 Commerce Way  
Auburn, NY 13021  
Ph. 800-688-6574 Fax 315-255-1202  
[www.volpiusa.com](http://www.volpiusa.com)  
Optical inspection instruments and illumination products: borescopes, fiberscopes, video microprobes, light sources, fiber optic illumination, LED illumination.

#### **Werth America Inc.**

40 Centre Drive  
Orchard Park, NY 14127  
Ph. 877-937-8426 Fax 716-667-2725  
[www.werthamerica.com](http://www.werthamerica.com)

#### **Xiris Automation Inc.**

1016 Sutton Drive, Unit C8  
Burlington, ON L7L 6B8, Canada  
Ph. 905-331-6660 Fax 905-331-6661  
[www.xiris.com](http://www.xiris.com)  
Xiris Automation was founded in 1989 and has grown steadily by building machine vision systems to monitor production quality. Our MediaSense product line offers inspection equipment specific to the media industry, including ident code readers for CDs and DVDs, disc orientation system, jewel box verifier, and printed graphics inspection system.

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