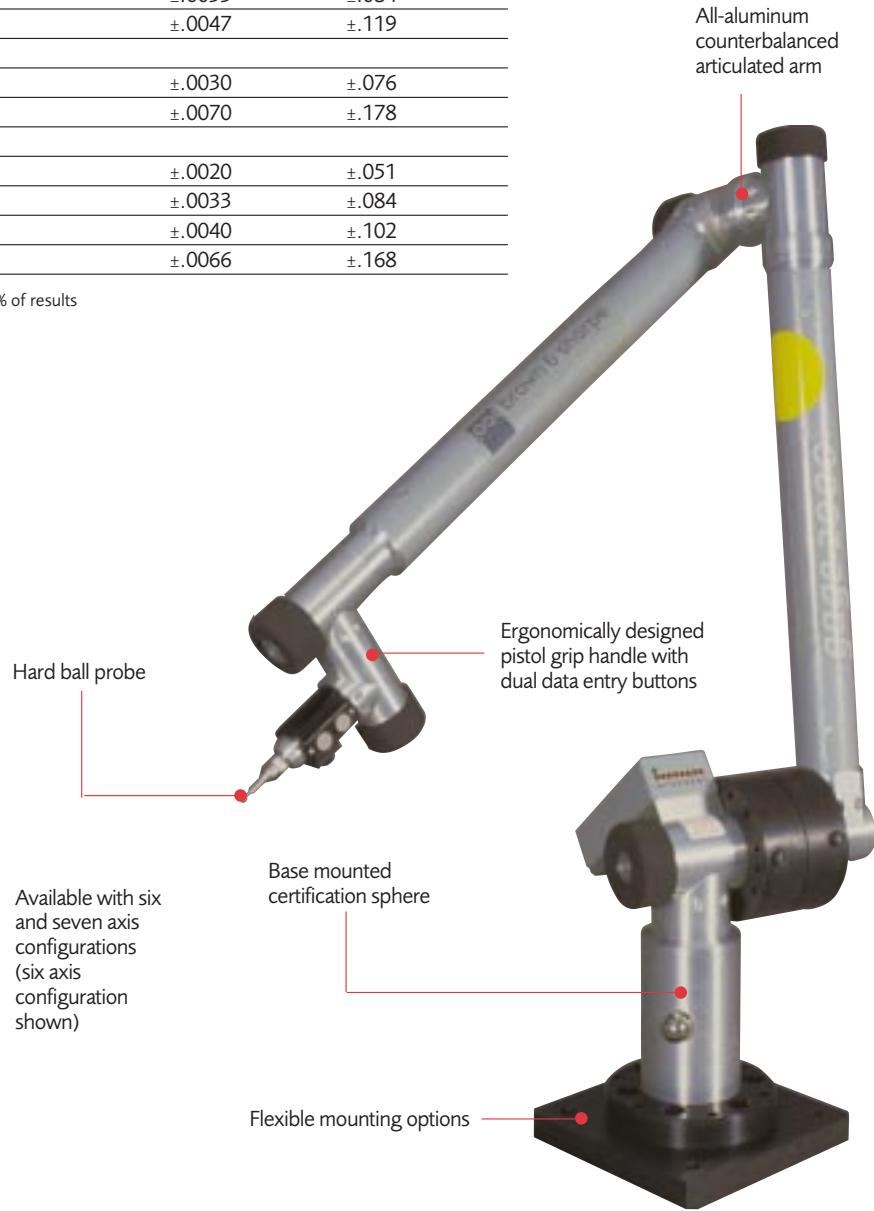


GAGE 2000A SPECIFICATIONS

Series Working Volume	2 Sigma Single Point Sphere Performance*	
	inches	mm's
Ultra 04 ft. (1.2m)	±.0010	±.025
Ultra 06 ft. (1.8m)	±.0016	±.041
Ultra 08 ft. (2.4m)	±.0020	±.051
Ultra 10 ft. (3.0m)	±.0033	±.084
Ultra 12 ft. (3.6m)	±.0047	±.119
<hr/>		
Enhanced 08 ft. (2.4m)	±.0030	±.076
Enhanced 12 ft. (3.6m)	±.0070	±.178
<hr/>		
Standard 04 ft. (1.2m)	±.0020	±.051
Standard 06 ft. (1.8m)	±.0033	±.084
Standard 08 ft. (2.4m)	±.0040	±.102
Standard 10 ft. (3.0m)	±.0066	±.168

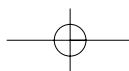
*Based on ±2 Sigma filter, i.e. 95.5% of results

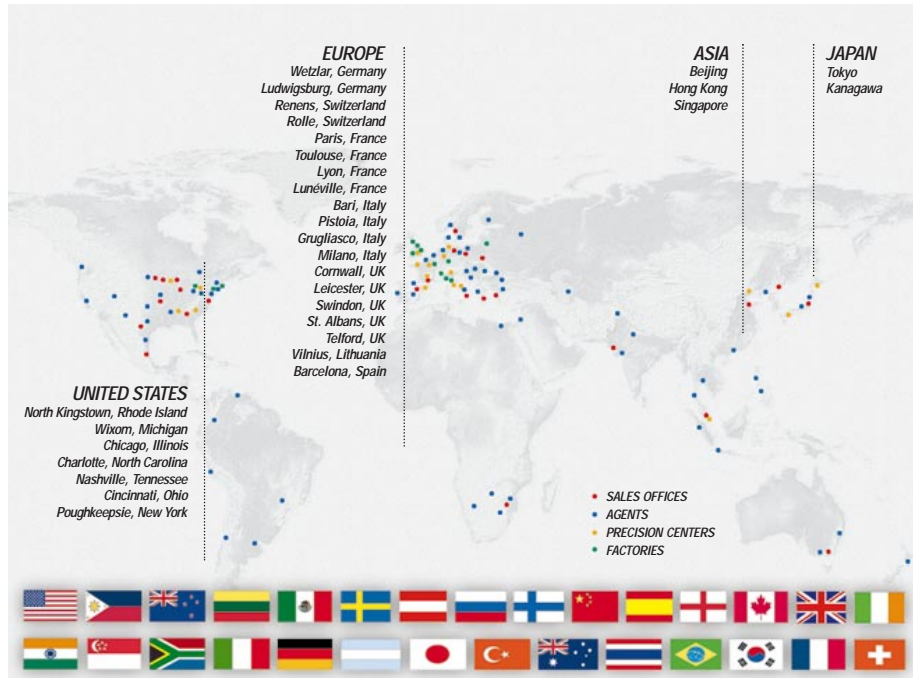


Visit our Gage 2000 website at gage2000.com



All CMMs, Metrology Systems and Software manufactured at Brown & Sharpe's three global Measuring Systems' factories and the customer service and support throughout the network of regional Precision Centers are ISO 9001 certified.





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 Tel: (847) 931-0100 Fax: (847) 931-1979
 Wixom, MI
 Tel: (248) 449-9400 Fax: (248) 449-7438
 Charlotte, NC
 Tel: (704) 525-0182 Fax: (704) 525-3154
 Cincinnati, OH
 Tel: (513) 942-0800 Fax: (513) 942-0804
 Nashville, TN
 Tel: (615) 331-0800 Fax: (615) 331-0875
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 (Aftermarket Services)
 Tel: (248) 449-9500 Fax: (248) 449-9559

Brown & Sharpe – Mexico

Garza Garcia, Mexico
 Tel: 8 338 6272 Fax: 8 338 7968

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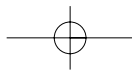
Ludwigsburg, Germany
 Tel: 07 141 8747 0 Fax: 07 141 8747 88
 Wetzlar, Germany
 Tel: 06441 207 0 Fax: 06441 207 122
 Telford, United Kingdom
 Tel: 01952 681300 Fax: 01952 681310
 Swindon, United Kingdom
 Tel: 01793 877633 Fax: 01793 877636
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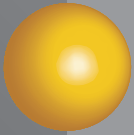
shaping the future of measurement

Brown & Sharpe Coordinate Measuring Systems include a 12 month warranty for hardware and software supported by a world wide network of authorized service centers. Due to continuing product development, Brown & Sharpe reserves the right to change product specifications and price without notice.
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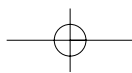
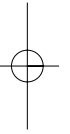
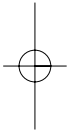
gage 2000a

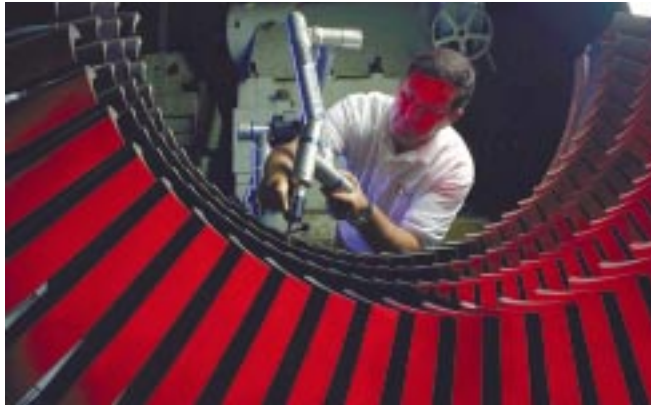
THE PORTABLE
SOLUTION
TO PRECISION
MEASUREMENT
AND INSPECTION



 wood brown & sharpe™

shaping the future of measurement



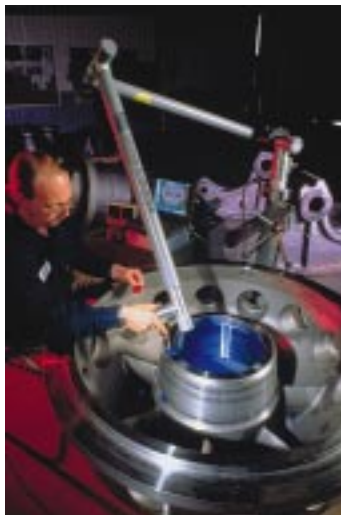


GAGE 2000 A from Brown & Sharpe is the ultimate articulated arm measuring system for portable use on the shop floor, in the tool room and anywhere accurate measurement and inspection operations are required.

GAGE 2000 A has a spherical measuring range of 4' through 12', and uses ball, touch trigger or point probe to gather dimensional data. Ultra-high precision pre-loaded bearings and advanced construction guarantee reliable operation and ensure long-term calibration repeatability with normal use.

The GAGE 2000 A measuring system can be equipped with

Brown & Sharpe REFLEX™ software for simple 1, 2 and 3 dimensional measurement without the need for keyboard entries, or Brown & Sharpe PC-DMIS™ for WINDOWS™ software for full CAD interface. The GAGE 2000 A is available in Standard, Enhanced and Ultra accuracy versions, and in six and seven axis configurations to provide specific flexibility and movement options for even the most complex workpieces.



BUILT FOR EASY USE ANYWHERE

The integrated, counterbalanced, articulated arm of the GAGE 2000 A gives it complete flexibility for unrestricted positioning in and around workpieces. Its all-aluminum construction assures repeatable performance in any operating environment. An ergonomically designed pistol grip provides full, single-hand control over arm movement. Dual data entry buttons make point collection fast and easy.

RELIABLE ON-THE-GO PORTABILITY

Move it in and out of the production line, or assembly line, to and from the inspection lab, indoors or outdoors. The GAGE 2000 A can be attached to virtually any surface including rolling instrument stands, part surfaces, fixtures, or tables for true portability without loss of accuracy. A base mounted calibration sphere lets you easily verify accuracy wherever you set up the GAGE 2000 A.





'JUST MEASURE' WITH INTUITIVE REFLEX SOFTWARE

Equipped with REFLEX software, the GAGE 2000 A becomes a measurement and inspection toolbox. Select the type of tool you need by touching the appropriate icon—caliper, micrometer, height gage, dial indicator, or measuring system—on the operator interface. No need for part programming or computer keyboard entries. Just measure the part. During the measuring routine, workpiece dimensions are compared to nominals, and out-of-tolerance conditions are indicated on the controller's VGA screen.

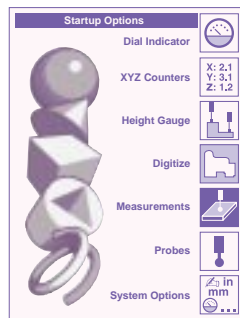
REFLEX software also gives the GAGE 2000 A the power to work as a full featured measuring system with a manual scanning option. The manual scanning mode lets you quickly collect a large number of data points by moving a hard probe along the surface of a workpiece feature. A scanning "speedometer" graphically indicates the quality of the

measurement data being collected, based on probe speed.

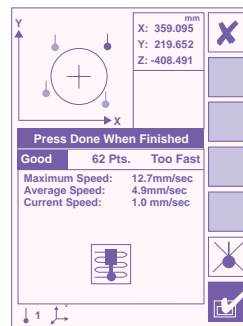
To speed repetitive measuring tasks, part programs can be stored on a PCMCIA "Smart Card." With Smart Cards, inspection programs can be transferred between all GAGE 2000 measuring systems that use REFLEX software for an added level of inspection efficiency and flexibility.



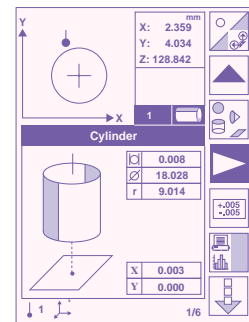
The ability to transfer the PCMCIA card from the programming source to satellite GAGE 2000s adds system flexibility.



1. Just push "Measurements"



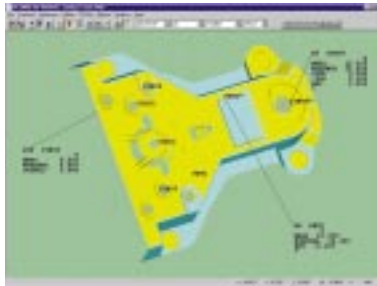
2. Scan a feature... GAGE 2000 AR draws its picture and tells you if your probe technique is ok.



3. GAGE 2000 AR automatically tells you what feature you touched...and displays its size and location.



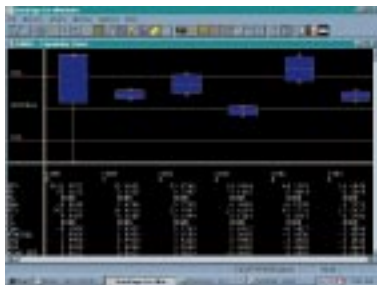
PC-DMIS™



PC-DMIS™



CURVES AND SURFACES™



DATAPAGE™



DATAPAGE™

HARNESS THE POWER OF ORIGINAL CAD DATA

With Brown & Sharpe PC-DMIS™ for WINDOWS™ software, GAGE 2000 A users can access original CAD data to create inspection programs, and digitize parts, uploading the dimensional data to a CAD system for reverse engineering projects.

Tailor the look and feel of the user interface to suit particular measurement and inspection tasks, and simplify operation. Probe qualifications and part alignments can be performed by simply selecting a pre-defined icon. Pre-programmed measurement routines can be accessed by selecting a single "execute" icon.

With PC-DMIS for WINDOWS, GAGE 2000 A can measure highly complex, contoured parts such as sheet metal assemblies and turbine blades quickly and easily. An intelligent, self-adapting algorithm calculates the actual surface normal vectors for accurate probe compensation during manual scanning operations.

The analysis window lets you analyze dimensional information in any combination of points or features, and graphically view the result.

An optional CURVES AND SURFACES™ module lets you import a CAD representation of a part's 3D geometry into the measurement program for a comparison between "as built" and "as designed" dimensions. This immediate feedback capability gives you an advanced tool for model making, die prove-out, inspection troubleshooting, and failure analysis.

FLEXIBLE DATA HANDLING AND FORMATTING

Measurement data can be automatically transferred from GAGE 2000 A via an RS-232 serial port to a shop floor data collector for archiving and process control analysis. Data can also be sent to an optional printer via a parallel port for a hard copy of inspection results. Brown & Sharpe's powerful DATAPAGE statistical analysis software is included as part of the PC-DMIS for WINDOWS option.

WINDOWS is a trademark of Microsoft Corporation