



ADCOLE

M O D E L

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T H E W O R L D

S T A N D A R D

DESIGNED TO CONSISTENTLY DELIVER THE HIGHEST ACCURACY—

The Adcole Model 1200 is the uniquely accurate crankshaft gage designed to help you to meet your quality objectives or improve current product quality.

Whether at work in the gage room or on the factory floor, this is the gage that helps you to maximize your individual machine tool performance and optimize your production processes.

Alone in its class, the Adcole Model 1200 proves that your production meets the world standard and gives your entire production team added confidence and a greater pride in the products that they manufacture.

And, by allowing you to minimize costly and untimely process interruptions, the Model 1200 also lets you enjoy the peace of mind that comes from knowing you made the right decision by selecting an Adcole gage — the world standard for crankshaft measurements.



ADCOLE

THE MODEL 1200

THE WORLD STANDARD IN ACCURACY AND PRODUCTIVITY

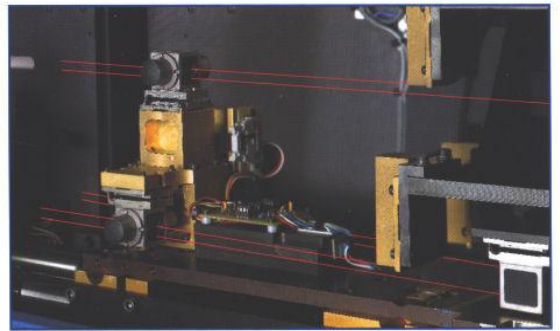
The Model 1200 is the gage the automotive and diesel engine industries rely on to consistently deliver uncompromising quality. The gage provides the highest level of accuracy — better than one-half micron — for crankshaft characteristics, especially pin journal roundness, cylindricity, and straightness. It is the only measuring machine accurate enough to compensate the latest generation of CNC pin grinders.

When it comes to agility, the Model 1200 is easily programmed. Operators can instantly switch the gage to different operation sequences, measure parts quickly, and produce measurement results in customized form. For different part lengths, the gage also sets up quickly. And only Adcole gages deliver the high degree of accuracy required to make this agility possible.

WITH STATE-OF-THE-ART ELECTRONICS AND OPTICS

Accuracy is designed into the Model 1200. Adcole's proprietary laser interferometer technology, an ultra-flat laser reference system, and the heavy duty Adcole-built spindle with an integrated optical angle encoder are just some of the critical design merits that contribute to this accuracy ... both today and for years to come.

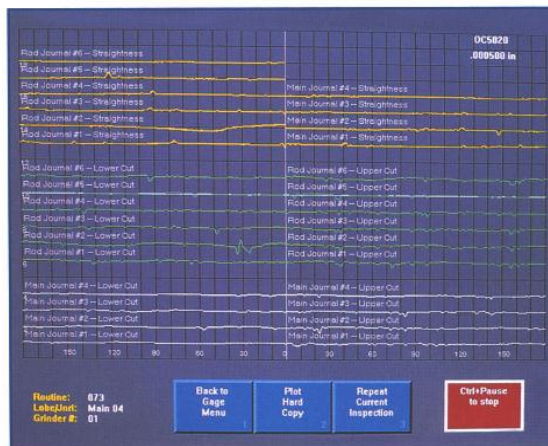
The high accuracy of the Model 1200 radial measuring system is achieved by the three laser interferometers which eliminate follower pitch and yaw errors. If left uncompensated for, these errors lead to incorrect pin journal measurements.



CUSTOM REPORTS FOR FAST, EASY INTERPRETATION

Using the 20" color monitor, your gage operators can select from many pre-programmed sequences, including audit checks after milling and grinding or a complete measurement at final inspection. Simply touch the desired sequence button on the screen and the gage then runs automatically. Measured results are printed or plotted in a customized, easy-to-interpret form.

(BELOW) Programmable color screen display of journal circularity and straightness errors, in linear form for easy interpretation to assist in grinder setup. (BELOW RIGHT) The pin journal portion of a numerical summary report of measured values. Out-of-tolerance values are automatically flagged. (RIGHT) Plotted graphical report of pin journal throw and index errors.



Ftur:	Diam Error	Rndnss	CylIndty
Lmts:	63.4800 .0100 -.0100	.0100	.0050
1L	.0058	.0046	.0102#
1C	.0103#	.0083	
1U	.0043	.0053	
2L	.0067	.0050	.0078#
2C	.0096	.0062	
2U	.0074	.0043	
3L	.0077	.0026	.0064#
3C	.0119#	.0047	
3U	.0084	.0025	
4L	.0069	.0021	.0081#
4C	.0145#	.0069	
4U	.0069	.0023	



THE ADCOLE MODEL 1200 PERFORMANCE PROFILE

The Model 1200 is a special-purpose measuring machine designed exclusively for measuring crankshafts, camshafts and pistons. The gage accuracy is better than 10% of part tolerances. The more accurate the gage, the higher the percentage of process tolerances you conserve for part machining. With this gage, you can eliminate the added cost of dedicated fixture gages and give your operators the advantage of an automatic measuring cycle. The Model 1200 is proven to be the best machine in the world for:

- Accepting new machine tools
- Verifying your grinders, milling machines, and polishers
- Making fast and efficient measurements of first-off parts after wheel changes and part changeovers
- Controlling your manufacturing process
- Checking parts at final inspection
- Minimizing scrap and rework to maximize good part production

ADCOLE... THE OBVIOUS CHOICE

CRANKSHAFT MEASUREMENTS

Roundness, cylindricity, straightness, parallelism, diameter, taper, radial runout, concentricity, face runout, index angle, throw, true position, lobing, center deviation, and lengths/widths.

CAMSHAFT MEASUREMENTS

Roundness, cylindricity, straightness, parallelism, diameter, radius, taper, radial runout, eccentricity, concentricity, center deviation, lobing, cam lobe index angle, and cam lobe lift and velocity errors.

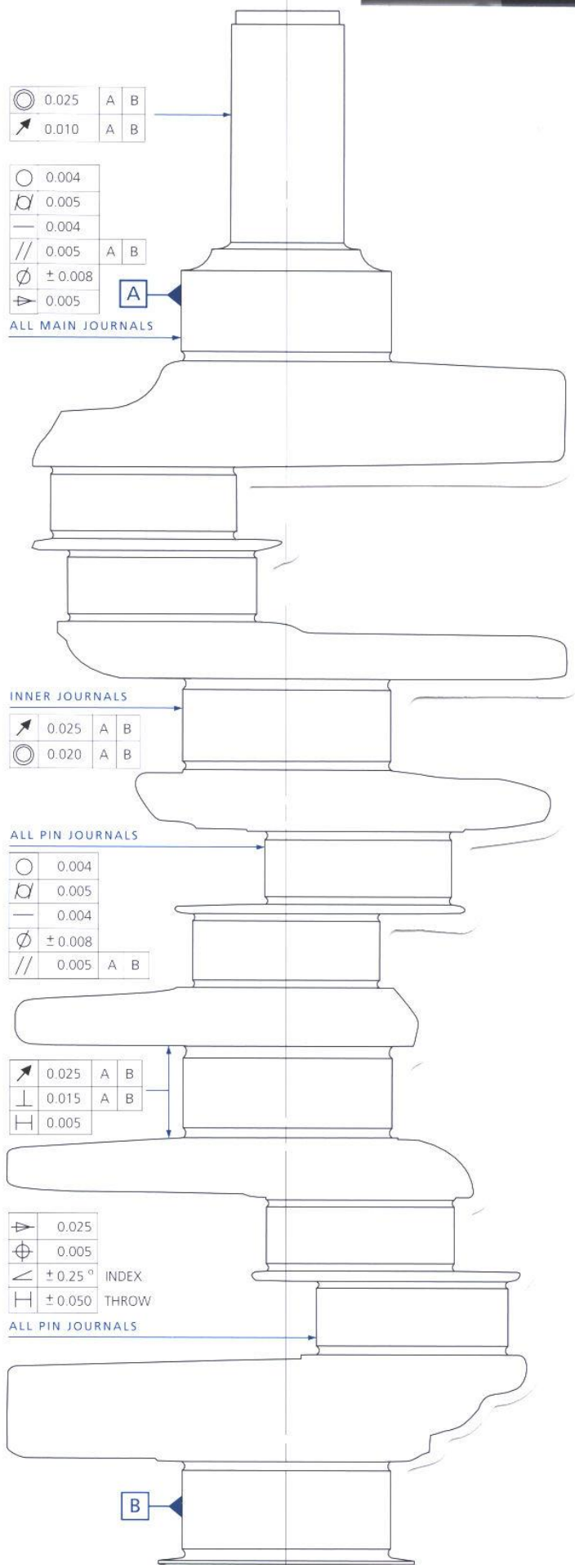


BUILT SHOP-FLOOR RUGGED ... GAGE-ROOM ACCURATE

Engineered to meet the demands of production lines, Model 1200 gages have proven their ruggedness in shop environments for two decades — providing a long-term stability and reliability on which Adcole gage users know they can depend. These gages also provide fast results (measuring 10 parts per hour) right there on the line for the people who need the information the most — the machine operators and process engineers. With integrated cooling and positive pressure systems, the gage keeps running maintenance-free.

WORLDWIDE SUPPORT NETWORK FOR ONGOING PERFORMANCE

With the Model 1200, you gain a competitive advantage — conformance to world standards — because you are using the gage that is the market and technology leader by a wide margin. And, with Adcole specialists strategically located worldwide, you're assured of a quick response to your needs — whether it is for measuring expertise, field service, ISO 9000 certification, or other assistance.



ADCOLE MODEL 1200 SPECIFICATIONS

GAGE SPECIFICATIONS

MEASUREMENT METHOD	Laser Interferometer
FOLLOWER TRAVEL	190 mm
RADIAL ACCURACY	0.25 micron
ANGULAR ACCURACY	1 arc second
AXIS OF ROTATION	Vertical
LOADING	Manual
PARTS PER HOUR	12

PART CAPACITY

SWING DIAMETER	300 mm
PART LENGTHS	508 mm 660 mm 812 mm 965 mm 1524 mm 2667 mm

ELExCTRONICS

DUAL MICROPROCESSORS
WINCHESTER DISK DRIVE
DUAL 3 1/2" FLOPPY DISK DRIVES
20" TOUCHSCREEN MONITOR
ASCII KEYBOARD
COLOR DESKJET® PRINTER/PLOTTER

OPTIONAL SOFTWARE

TAPN® NOISE PREDICTION
SPECTRUM WAVINESS EVALUATION
SPC AND GR&R SOFTWARE
ROLLER FOLLOWER CONVERSION
OFF-LINE SEQUENCE PREPARATION

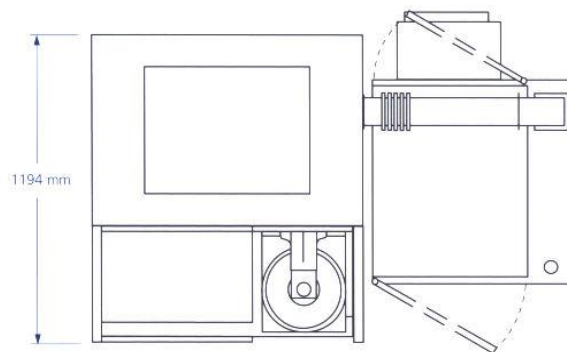
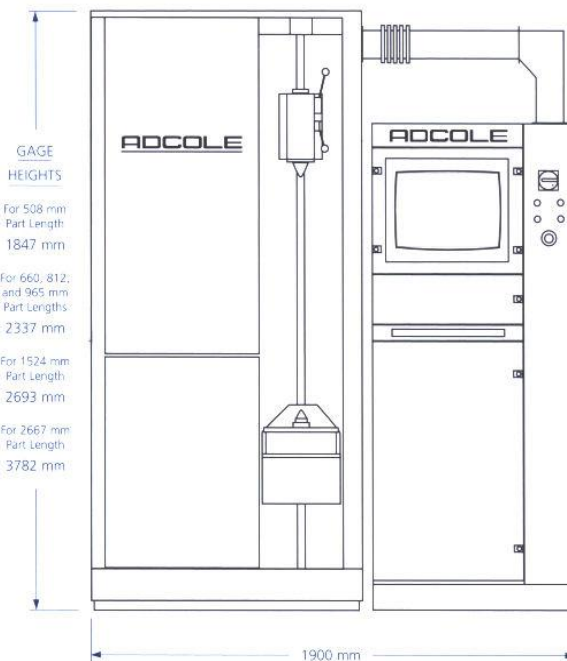
DISPLAYS & REPORTS

SCREEN OR PRINTER
POLAR OR LINEAR PLOTS
ALPHANUMERICAL SUMMARY REPORTS

USER LANGUAGES

ENGLISH	GERMAN
FRENCH	ITALIAN
SPANISH	PORTUGUESE
SWEDISH	JAPANESE
CHINESE	KOREAN

DIMENSIONS



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