

Precision Vision

Vision measurement systems from Edmunds Gages. The precision measurement experts.



 **Edmunds** GAGES

Calibrated visual production measurement. That's the Edmunds difference.



You've needed the speed that vision measurement offers, emphasizing the number of parts per second rather than the number of seconds per part. However, the reliability and true assurance of many automated vision systems have been less than ideal.

Now look at it our way.

The measurement engineers at Edmunds Gages operate from a solid foundation: Measuring to 1/10 of 1 millionth of an inch; ultra precise cylindrical masters; direct traceability to the National Institute of Standards and Technology (NIST); and 55 years of building custom gages. It's from that wealth of knowledge and experience that we have incorporated the technology to achieve precise, optical production measurement. These gages successfully integrate a combination of sophisticated camera systems, intuitive measurement software, and streamlined mechanical automation.

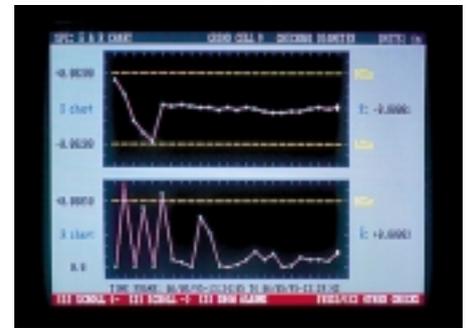
As an example of the types of measurement challenges we can solve with Edmunds vision capabilities, here is a brief description of an automated gaging system we recently designed and manufactured:



1) Flexible gage measures a family of valve guides at 10,000 parts per hour. Lengths range from 1.25" to 3", diameters from .375" to .625". The features checked were chamfers on both ends, length, chipped faces, the presence of a ground surface, OD, and I.D.



2) Parts handling components place parts in vee blocks on an indexing conveyor. Valves are comparatively viewed and measured with high resolution cameras. They detect size by thousandths of an inch, not number of pixels, to determine "accept" or "reject" status.



3) Statistics can be viewed by gage R & R studies, histograms, X-Bar and R charts, bar graphs, and more. Monitoring such data allows continual process improvement and guarantees results. Cameras can be easily adjusted from a live image screen that also allows output from an Ethernet port.

This is just one example of the many configurations we can offer you. We can even marry conventional LVDTs and air gages with precision vision, depending on your vision requirements. Whatever your dimensional measurement challenges, contact Edmunds Gages. The precision measurement experts.

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