

2008 Quality Sourcebook

Dimensional Measurement

Manufacturers of all kinds depend on the accurate measurement of products and parts to ensure that they conform to the needs of their customers.

The three guides in this section will help you ensure proper dimensional measurement. The 3-D Measurement Directory provides a listing of major companies offering high-tech coordinate measuring machines and other 3-D measurement equipment. Companies listed in the Optical Dimensional Measurement Systems Directory and/or the Vision Systems Directory amplify the power of sight for product inspection and approval.

Further information, including company descriptions (if provided to us) can be found on our web site at www.qualitydigest.com/directories.

Dimensional Measurement Section

3-D Measurement Systems Directory Page 57

The 3-D Measurement Systems Directory includes company name, address, phone and fax numbers, and a web address.

Optical Dimensional Measurement Systems Directory... Page 60

This directory includes the name, address, phone and fax numbers, and web address of optical-product and providers.

Vision Systems Directory Page 62

This directory of vision system inspection providers contains each company's name, address, phone and fax numbers, and web address.

Glossary

- Accuracy**—deviation from a known standard
Brightfield—illumination technique that provides flat, even lighting of the field of view
CAD—computer-aided design
CAE—computer-aided engineering
CAM—computer-aided manufacturing
CMM—coordinate measuring machine
Confocal microscope—visual inspection device that uses white light or lasers to construct a highly detailed map of a 3-D sample
Darkfield—illumination technique that lights the specimen surface from an oblique angle to highlight surface problems
Deviation—difference between the actual measured dimension and the nominal dimension
Linear accuracy—accuracy of instrument along a single axis
Nominal—standard, desired dimension or size of a feature
Optical comparator—visual inspection device that projects a magnified image or profile of a part onto a large ground-glass screen.
Range—X, Y, or Z distance a CMM can travel while measuring a part
Repeatability—measure of the ability of an instrument to produce the same measured value when sequentially sensing the same quantity under similar measurement conditions
Resolution—smallest distance that can be measured by the instrument
SRM—standard reference material
T comp.—temperature compensation
True position—exact location of a point, line, or plane
Volumetric accuracy—accuracy of the instrument when measuring along all axes simultaneously

The information contained in *Quality Digest* directories, plus some additional information, is available online at www.qualitydigest.com/directories

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