

Quality Digest

2003
Quality
Sourcebook

Gage Manufacturers

The word “gage” encompasses a host of instruments, including dial indicators, digital indicators, bore gages, air gages, height gages, thread gages, depth gages, hole and slot gages, barrel gages, micrometers... the list goes on and on.

If you know exactly what you’re looking for, check out the company descriptions to see which companies carry the instrument you need. If you’re not quite sure what type of gage best fits your application, try visiting the companies’ Web sites to gain a better understanding of the instrument that’s ideal for you.

To choose the right gage for your application, keep in mind these requirements: the manufacturing or end-product priorities vs. critical characteristics to be gaged, specified part tolerance limits, accuracy and repeatability of the gage, and characteristics to be gaged. For additional guidance, you may want to refer to Tom Stewart’s April 1998 article “Selecting the Right Gage,” which you can find at *Quality Digest*’s Web site at www.qualitydigest.com/april98/html/rightgage.html.

The Quality Sourcebook’s Gage Manufacturers Guide presents a wide assortment of gages from more than 250 manufacturers and distributors.

Gage Manufacturers Guide

Gage Manufacturers Directory79

This directory of gage manufacturers includes the company name, address, phone and fax numbers, and Web address. For a brief description of each company’s products and services, visit www.qualitydigest.com/directories. (Please note that not all companies provided us with descriptions.)

As with all *Quality Digest* guides, the Gage Manufacturers Guide is in no way meant to endorse or exclude a particular organization. Rather, it’s meant to be used as the starting point in the data-gathering process. Readers are encouraged to contact the companies directly for more information and to ask for—and check—references.

We appreciate any feedback you have on our Gage Manufacturers Guide. If you have any suggestions for how we can improve this directory for next year, e-mail them to sourcebook@qualitydigest.com.

Glossary

A2LA—American Association for Laboratory Accreditation

ACIL—American Council for Independent Laboratories

Air-to-electronic variable gage—uses pneumatic line pressure to compare dimensions, geometries and positions of production parts

ANSI—American National Standards Institute

Attribute-type gage—compares part characteristics to specification limits to accept or reject the part based on whether the limits are satisfied

CAD—computer-aided design

CAE—computer-aided engineering

CAM—computer-aided manufacturing

Comparator—a measuring component that compares workpiece characteristics to a reference

DIN—Detsches Institut für Normung (German national standards body)

Go/no-go gage—an attribute-type gage

IEEE—Institute of Electrical and Electronics Engineers

Interpreter—a processor, either human or electronic, that assesses information from the measuring device’s comparator

NIST—National Institute of Standards and Technology

SCC—Standards Council of Canada

SRM—standard reference material

Standard—a master workpiece used as the basis for comparison to determine whether duplicate workpieces fall within specification limits

Touch probe—an electronic contact measuring probe that is mounted on a machine tool

UL—Underwriters Laboratories

Variable-type gage—provides a quantitative value for the part characteristic being checked

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