

GAUGING

GAUGE SELECTION & CALIBRATION

Our technical representatives and customer service specialists will assist you in selecting the proper gauges or masters on receipt of dimensions and tolerances of the work you need to inspect. Our ISO 17025 accredited laboratory can provide calibration of thread or plain gauges and masters to the highest level of accuracy.

MODIFIED GAUGES

Our Brampton gauge making facility is able to modify standard gauges to suit special needs. Plug gauge modifications include air escape grooves or flats, depth steps or relief on the outside diameter so the plug can check for out of round conditions.

PLAIN GAUGES

We stock thousands of Deltronic metric and inch size plug gauges. They are made to $+40\mu$ "/ 1μ m tolerance and are available in .0025mm or .0001" steps.

Supplied as members only, in sets or as go/nogo plug gauges with handles in sizes ranging from .004 - 1.012" or .1 - 25.7mm. Regular reversible, taperlock and trilock plug gauges, plain ring gauges, setting discs and rings are available in all standard tolerances. Many of these gauges are made to the highest quality standards at our Brampton factory.



THREAD GAUGES

Our inventory of thread plug and ring gauges includes all of the most popular threads along with setting masters for thread ring gauges. We supply gauges to the following specifications among others:

NC/NF	UNC/UNF	NEF/UNEF
NPT/NPTF	ANPT/NPSM	BSPP/BSPT
ISO/Pipe	ANSI Metric	ISO Metric
JIS Metric	ACME	DIN
STI	Whitworth	R/Rc/G
NGO/NGT	NPSC/NPSF	NH/NHR
UNJ	PTF/SAE	



SPECIAL GAUGES



We design and make a wide range of gauges for special applications. Feeler type plug gauges bent for easy access to gauge points on fixtures are available up to 3/8" or 10mm in diameter. Ball and oval type plug gauges are other popular specials we supply.

Work piece features such as slots with radiussed ends require checking with two nogo members. A special t-shaped double nogo handle keeps all members together in a convenient to use handle. (Pat.Pend.)

Concentricity gauges, for plain and/or threaded part features, plate and gap type gauges, special gauging fixtures and hand gauges are all available on special order from our Brampton facility.



GO/NOGO SNAP GAUGES

Type 'A' adjustable go/nogo snap gauges have four pin-type anvils and are the most accurate gauge of this type. Type 'C' gauges have a fixed block as a lower anvil with upper anvils that are set to size. This is our most popular model. If you have to check outside groove diameters, Type 'U' gauges are similar to the type 'C' models but with blade type anvils to clear the sides of the groove.

We can modify these gauges to suit special applications and our laboratory can set and seal them to suit your requirements.



AIR PLUG/RING GAUGES

These gauges offer fast, accurate production inspection of bores or outside diameters. They are available with two or three jets and size permitting, can be made to inspect two or more diameters at the same time. The gauges can be used with a dedicated air gauge unit or IBR combined analog/digital measuring units.



INDICATING PLUG GAUGES

These hard chromed plug gauges are easy to use and are designed to use a regular or digital indicator or electronic probe with remote display. They are lighter than conventional gauges and are available for bores as small as 2.98mm/.117" in diameter. Special versions for use in automated equipment are available.



ELECTRONIC GAUGES

IBR multi-range, inch/metric, gauging systems feature digital and analog displays of measured dimensions using transducers, air plug and ring gauges etc. A single column can display four dimensions or more in sequence or combined with others for multi-dimension gauging.

Most systems have outputs for data logging and machine controls. Displays show tolerance boundaries and turn red or orange when your pre-set limits are exceeded.

All of these units offer the maximum versatility obtainable from electronic gauging systems at a reasonable price. And they can be configured to work with the most popular probes on the market.



SANGHA BORE GAUGING

Triga-bore gauging equipment is fast, easy to use and accurate. The carbide contacts provide a positive location in the bore and will detect roundness problems missed by other instruments. Each model covers a large measuring range and is supplied with a setting ring at no extra cost. Ask for a free copy of the Sangha brochure that gives details of the many models available.

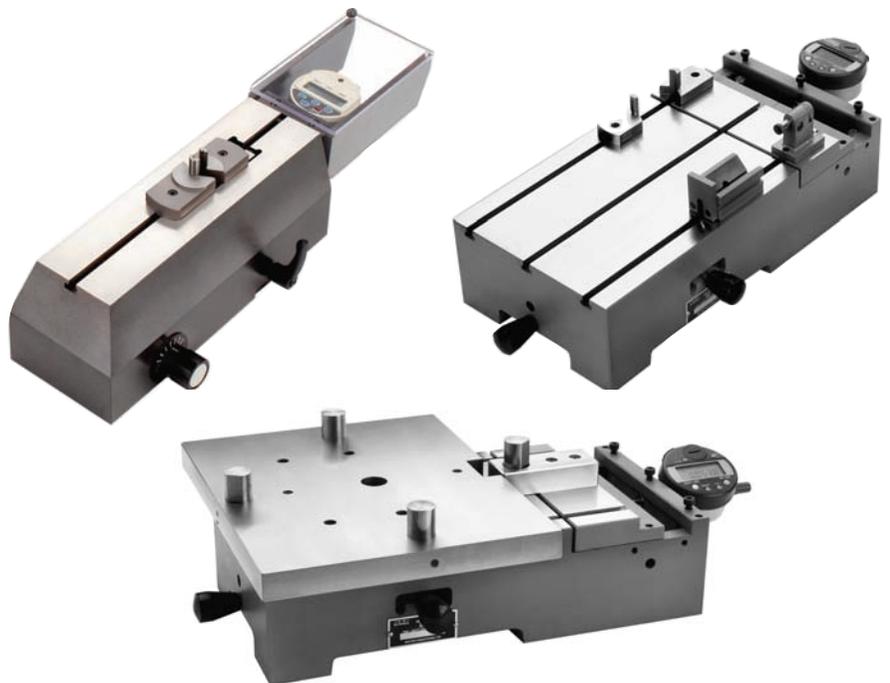


PRODUCTION COMPARATORS

Both the Practicheck and the Checkmaster comparators have a moving table that can be biased for internal or external measurements. The Checkmaster has three tracks for multi-dimension applications.

These versatile instruments can be set up to measure inside or outside diameters, lengths, threads and more on a production basis. The basic instrument is constructed for use in a shop environment while offering high accuracy and low GR&R. Analog or digital indicators can be used for displaying the dimension or electronic gauging systems due to their high accuracy and excellent repeatability.

Our Brampton gauging specialists can design and produce tooling and setting masters for these instruments to suit your special gauging needs. Our technical representatives will be pleased to review your applications and advise you should you decide to design and build your own tooling for use with these precise, rugged instruments.



Mitutoyo Starrett®

We offer a comprehensive range of precision instruments from two of the world's best known manufacturers. Whether you need a micrometer, digital indicator, height gauge, bore gauge, roundness analyzer or a coordinate measuring machine, our technical representatives can help you choose from the many models available. And we can provide service and calibration for both Mitutoyo and Starrett instruments.

OTHER PRODUCTS WE SUPPLY

We offer a very wide range of precision gauges and measuring instruments beyond those shown here. Here is a partial list:

- ◆ Deltronic Optical Comparators
- ◆ Q-Cees Calibration Labels
- ◆ Sine bars, Plates
- ◆ Calibration Instruments
- ◆ Precision Balls
- ◆ Spline Gauges
- ◆ Heidenhain Instruments
- ◆ Elektro Physik Coating Thickness Gauges
- ◆ Comparator Stands*
- ◆ Diameter Measuring Tapes
- ◆ Overlay Charts for Optical Comparators
- ◆ Mark-10 Force & Torque Instruments
- ◆ Thread Location Pins for CMMs*
- ◆ Micrometer Calibration Masters*
- ◆ Deltronic Thread & Gear Measuring Wires
- ◆ Thread Comparators
- ◆ Flexbar Facsimilie Molding Compound
- ◆ Optical Comparator Calibration masters*
- ◆ Ultra-sonic Thickness Gauges
- ◆ Large/Shallow Bore Gauges
- ◆ Deltronic Gauge Lubricant

NOTE: We also offer custom thread grinding of core plugs for molds, leadscrews, worm gears, ball screws and a wide range of precision components and tooling.

**Made in Canada*

CALIBRATION SERVICES

The Canadian Central Gauge Laboratory was the first independent calibration laboratory in Canada and remains unique in the type of calibration it can provide. For example, we have a helical path analyzer for thread plug gauges, the only one in Canada. Our expertise in gauge and instrument calibration is recognized across North America and many countries from Asia to England.



The Laboratory is accredited to ISO 17025 by the American Association for Laboratory Accreditation under calibration certificate #1165-01. We are also accredited for on-site calibration work as well. Our accreditation is recognized by ILAC - the International Laboratory Accreditation Cooperation. We will be pleased to provide you with a copy of our certificate and scope of accreditation on request.



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