



# Micro-Metrics Company Product List

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## OG204 and OG202 Tooke Paint Inspection Gauge



A precision tool for inspection and thickness measurement (ASTM D4138) of single or multiple coats on any substrate, and for microscopic observation and measurement of substrate and film and film defects. Uses an illuminated 50-power microscope with a "universal" measuring reticle that measures in mils, microns, and millimeters; and mounts three tungsten-carbide cutting tips for precise incision of the surface.

Available in these configurations:

- OG204 molded polycarbonate plastic
- OG202 anodized machined aluminum

Tooke Gauges come in a polycarbonate (plastic) case with two spare batteries, a spare LED bulb, marking pen, hex wrench, and a technical data sheet.



## Cutting Tip Holders

### CTH01 (single-tip)

The Cutting Tip Holder, at a little under two inches long, allows easy use of a cutting tip without having to manipulate the Tooke Gauge to make the incision and then manipulate it again to view the incision through the microscope. Make multiple incisions with your most-used tip without having to return the gauge to viewing position multiple times. A tip storage compartment holds two additional tips.



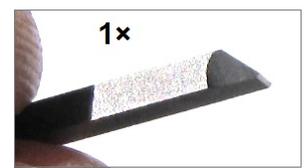
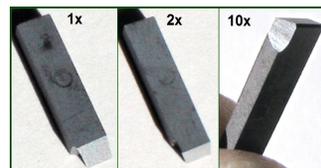
### CTH02 (double-tip)

This holder allows two tips to be mounted on opposite sides and, like the shorter single-tip holder (CTH01), allows easy use of the cutting tips without having to manipulate the Tooke Gauge to make the incision and then manipulate the gauge again to view the incision through the microscope. Guide studs on one side are adjustable in height (by screw and nut).



## Replacement tungsten-carbide cutting tips

Available in 1x (45°), 2x (26.6°), 5x (10.2°), and 10x (5.7°) configurations. (5x cutting tip not shown.)



## MG402 Microgroover

The Microgroover is a major accessory tool for creating coating incisions for film thickness measurements with the Tooke Paint Inspection Gauge. This tool greatly extends the range of the measuring technique to include almost any coating on any substrate. The Microgroover is especially effective on hard and brittle (concrete) materials, as well as soft or elastomeric (rubber) substances. In addition, fibrous composites are incised easily and cleanly. This device eliminates the deformations of coating and substrate that may occur when conventional gauge cutting tips are used.



## H-501 Pencil Hardness Gauge

The Micro-Metrics Pencil Hardness Gauge is practical for use in the laboratory, on the production line, or in the field to assess quantitatively the rigidity or firmness (elastic modulus) of organic coatings applied to rigid substrates such as metal. Hardness values may define requirements for particular coatings applications or may be used to evaluate state-of-cure or aging of coating. The Pencil Hardness Gauge is unique in that it provides a compact single unit for performing this test, rather than a set of easily lost individual pencils. The importance of this advantage is especially apparent when several individuals are working with a single instrument. Now manufactured with all-metal lead holders and supplied with these leads:



6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H.



## S-701 Thin (1–10 mils) Film Thickness Standard S-702 Thick (10–60 mils) Film Thickness Standard

The accuracy of thickness gauges is checked by the use of Film Thickness Standards. "Surface proximity gauges," magnetic, inductance, or eddy current type generally require calibration before performance of any series of measurements – and often within a series of measurements, especially if the surfaces are variable in type and structural thickness.

## Replacement OG200 (Tooke Gauge) Carry Case

The OG202 and OG204 Tooke gauges now come in a carry case made of polypropylene with foam inserts to carry your Tooke Gauge and spare parts. Outside dimensions are 7.75" (19.7cm) by 6.57" (16.7cm) by 1.85" (4.7cm) and the case comes with a handle and two latches.

If you carry a single-tip Cutting Tip Holder (CTH01), you can place the Cutting Tip Holder in the pre-cut battery "compartment" in the foam and, as shown, cut a bit of foam off the insert to put the batteries along the edge.



Please see the Micro-Metrics website for pricing and details.  
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