

MODEL IC PRECISION WET FILM THICKNESS GAUGES WITH CENTER ECCENTRIC DISK

Meets ASTM D1212, D3794



IC Gauge, Mil Scale Side

These gauges are similar in design to the original Interchemical gauges patented about 1950, with the distinction of having dual scale in mils and microns with a center eccentric disk.

Dual Scale in Mils & Microns

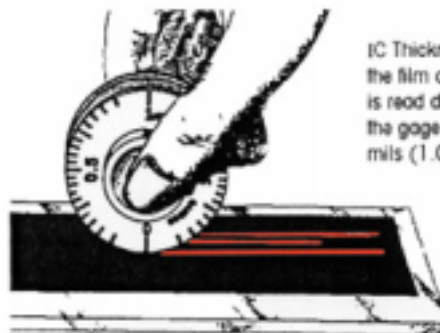
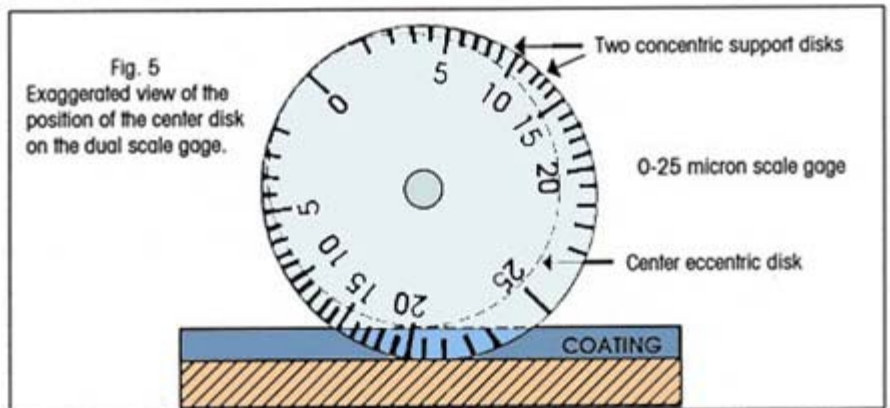
- 0 - 1 Mil (0 - 25 Microns)
- 0 - 2 Mils (0 - 50 Microns)
- 0 - 4 Mils (0 - 100 Microns)
- 2 - 12 Mils (50 - 300 Microns)

DESCRIPTION

The Gardco IC gauge is in the form of a stainless steel wheel approximately 2" in diameter made up of 3 disk sections approximately 5/8" thick. Machined from a single piece of stainless steel stock, the two outer disks are of the same diameter. The center disk is somewhat smaller and is eccentric to the outer disks. When the gauge is rolled over a wet film the eccentric disk will pick up the material only at and below the actual thickness which permits its immediate and direct reading. The mil scale is engraved on one side of the gauge, and the micron scale on the other side.

USE

Clasp the gauge with the thumb and forefinger so that the gauge body is free to turn. Place the 0 - 1 mil range gauge on a freshly coated surface at the 1.0 mil (25 micron) graduation mark and roll the gauge one-half a revolution to the "0" mark. Lift the gauge and place on another part of the surface with the 1.0-mil mark in contact with the coating. Then roll the gauge in the opposite direction to the "0" mark. Examination of the center disk will show thickness at which pickup of the wet coating has taken place and the averaging of these values may be the true wet coating thickness.



GAUGE TOLERANCE

Measurement and support surfaces of the Gardco IC gauge are over six inches in length. The gauge range is within half of this length and each half contains 20 graduation marks on the 0 - 1 mil scale and 25 graduations on the 0 - 25-micron scale. Due to inherent geometries for highest accuracy measurements the gauge should not be used between the first and last two graduation marks of the gauge range. Between these unit the graduation marks are within the tolerance of the table shown below.

TOLERANCE LIMITS

Gauge Range		Smallest Graduation		Recommended Use Range		Tolerance Limits	
Mils	Microns	Mils	Microns	Mils	Microns	Mils	Microns
0 - 1	0 - 25	0.05	1	0.1 to 0.9	2 to 23	0.1	2.5
0 - 2	0 - 50	0.1	2	0.2 to 1.8	4 to 46	0.2	5
0 - 4	0 - 100	0.2	5	0.4 to 3.6	10 to 91	0.2	5
2 - 12	50 - 300	0.5	12.5	3 to 11	76 to 279	0.4	10

AVAILABLE ITEMS AND ACCESSORIES

Item Number	Item
800-WF-2102	Gardco IC gauge, 0 - 1 mil (0 - 25) μ m
800-WF-2106	Gardco IC gauge, 0 - 2 mils (0 - 50) μ m
800-WF-2110	Gardco IC gauge, 0 - 4 mils (0 - 100) μ m
800-WF-2114	Gardco IC gauge, 2 - 12 mils (50 - 300) μ m
800-WF-2118	Gardco IC gauge, 10 - 30 mils (250 - 750) μ m
800-WF-2122	Gardco IC gauge, 20 - 60 mils (500 - 1500) μ m
800-WF-2126	Gardco IC gauge, 50 - 100 mils (1250 - 2500) μ m
800-WF-2100/CERT	Gardco Certification, complies with ANSI/NCLS Z540-1 or MIL-STD-45662A as applicable. Meets ISO 9002 when certified.



800-WF-2242
Soft Case - Full grain leather pouch with protective leather straps, velcro lock down and double bar snap closure

Accessories



800-WF-2231
Handle for all GARDCO Precision Wet Film Thickness Gauges

Distributed in Canada by:
QPC Instruments Inc.



800-WF-2244
Hard Case for best protection includes plywood frame with black embossed vinyl covering, stud and pin snap and inner case of soft nylon velvet.