

Laboratory Scope

Precision Gage Company maintains a dimensional measurement laboratory for the calibration of gages and measurement of customer parts. The laboratory is maintained in a state of the art temperature and humidity controlled room that maintains a temperature of $68^{\circ} \pm 1^{\circ}$ and humidity of $40\% \pm 5\%$.

The primary reference standards used are gage blocks and NIST traceability is maintained via L.S. Starrett – Webber Gage Division. All procedures follow applicable industry standards.

PARAMETER / EQUIPMENT	RANGE	REFERENCE STANDARD OR EQUIPMENT	PROCEDURE(S)
Calipers	Up to 40 in	Gage Blocks, Surface Plate	12.17
Cylindrical Plug Gages	Up to 24 in	Supermicrometer, Gage Blocks	12.25
Cylindrical Ring Gages	.125 to 12 in	Universal Measuring Machine Gage Blocks	12.28
Depth Micrometers	Up to 12 in	Gage Blocks, Surface Plate	12.14
Dimensional Inspection Custom Gages Customer Supplied Parts	X: Up to 27.559 in Y: Up to 35.433 in Z: Up to 19.685 in	Zeiss Prismo Navigator with Rotary table and Gear Pro Software	12.66
End Rod Standards	Up to 24 in	Precision Measuring Machine, Gage Blocks	12.13
Gears – Master Gears and Customer Part Total Composite Error Tooth – Tooth Composite Error Test Radius Tight Mesh Center Distance	Up to 16 in.	Vari-Roll D4 Vari-Corder or Vari-PC	12.33
Gears and Splines – Master Gears and Customer Parts Profile Lead Pitch	Up to 25 in	Zeiss Prismo Navigator with Rotary table and Gear Pro Software	12.65
Height Gages	Up to 40 in	Gage Blocks, Precision Indicator, Surface Plate	12.21
Indicators & LVDTs	Up to 6 in	Bench Micrometer, Gage Blocks	12.16
Inside Micrometers	Up to 24 in	Gage Blocks, Surface Plate	12.15
Outside Micrometers	Up to 24 in	Gage Blocks, Surface Plate	12.12
Thread Plug Gages Major Diameter	Up to 10 in	Supermicrometer, Thread Wires,	12.22

Pitch Diameter		Gage Blocks	
PARAMETER / EQUIPMENT	RANGE	REFERENCE STANDARD OR EQUIPMENT	PROCEDURE(S)
Spline Plug Gages	Up to 10 in	Supermicrometer, Gage Blocks, Gear wires	12.39
Spline Ring Gages	Up to 12 in.	Universal Measuring Machine, Gage Blocks	12.40
Vari-Roll Basic Unit	All Models	Gage Blocks, Axial Parallelism Fixture, Gage Pins	12.30
Vari-Corder	All Models	Gage Blocks, VR-675	12.54
Vari-PC	All Models	Gage Blocks, VR-675	12.65
VR-120 - Vertical Center	All Models	Gage Blocks, Axial Parallelism Fixture, Gage Pins	2.55
VR-210 – Rotary Face Plate Attachment	All Models	Gage Blocks, Test Indicator	12.56
VR-2010 Helical Flat Gear Adapter	~	Gage Blocks, Axial Parallelism Fixture, Gage Pins	12.57
VR-2020 – Worm Gear Adapter	~	Gage Block, Test Indicator	12.58
VR-2030 – Helical Pinion/Worm Adatper	~	Gage Blocks, Test Indicator	12.59
VR-2040 – Centerless Pinion/Worm Adatper	~	Gage Blocks, Test Indicator	12.60
VR-310 – Bevel Gear Adapter	~	Gage Blocks, Test Indicator	12.59
VR-502 – Vertical Vee Adapter	~	Gage Blocks, Test Indicator	12.59
VR-700 – Auxiliary Vee Adapter	~	Gage Blocks, Test Indicator	12.59