



Quality Labs Capabilities and Equipment

TechMet Carbides has fully equipped Quality Laboratories to conduct a wide range of dimensional and metallurgical analyses.

Dimensional Capabilities

Digital Optical Comparator	Keyence IM 7000
Digital Microscope	Keyence VHX-5000
Roundness Testing	Mahr MarForm MMQ 400
V-Micrometers	0 – 1", 1" – 2"
Digital Micrometers	0-1" (0.0001" resolution)
Micrometers	0-1", 1-2"
Digital Calipers	0-6", 0-8", 0-18"
Dial Calipers	0-6"
Digital Indicators	Heidenhain gage 0.000020" accuracy
Dial Indicators	0.0005" resolution
Manual Optical Comparator	Brown & Sharpe Masterview IV
Laser Micrometer	Beta LaserMike 4050G
	- Precision Measurement of OD dimensions to 0.000020" accuracy
Automated TIR Measurement	Rollomatic Concentricity Pro
	- Used in conjunction with Beta LaserMike 4050G, accurate to 0.000020"
Surface Roughness	Mahr MarSurf PS-10
Pin Gages, Ring Gages – XX GO, Master Gages – Traceable to NIST	

Metallurgical Capabilities

X-Ray Fluorescence Analyzer Spectrometer (XRF)	
	- Determines chemical analysis / composition of material samples
Rockwell Hardness Tester, HRA Scale	
Density, g/cc	
Magnetic Saturation, emu	
Coercive Force Hc, measured in Oe	
Metallurgical Microscope with digital image capability (1500x magnification)	