

SCOTIA - the prime source of instrumentation technology

DIMENSIONAL METROLOGY

<u>Device Type</u> External Micrometers	Range 0 to 48" 0 to 1200mm	<u>Cal. Device</u> Slip gauges Optical flat	Uncertainty & Notes BS870:2008 to 24"/600mm >24" Manufacturer's spec
Internal Micrometers	0 to 40" 0 to 1000mm	Trimos Linear Meas. Device	BS959:2008 to 36"/900mm > 36" Manufacturer's spec
Depth Micrometers	0 to 12" 0 to 300mm	Trimos Linear Meas. Device Slip Gauges	BS6468:2008
Vernier Calipers	0 to 48" 0 to 1200mm	Slip Gauges Trimos Linear Meas. Device Inside Micro checker	BS887:2008
Plug gauges	0 to 6" 0 to 150mm	ULM	BS969:2008
Engineers Steel Rules	2m	Rabone Chesterman	BS4732:1968
Depth Verniers	0 to 40"	Traceable Slip gauges/ Trimos Linear Meas. Device	BS6365:2008 to 24"/600mm >24" Manufacturer's spec
Height Gauges	0 to 40"	Traceable Slip/Rod	BS1643:2008
Dial Indicator Plunger/Lever	0.0001/001"	Traceable Slip Gauges/ Trimos Linear Meas. Device	BS907:2008/ BS2795:1981
Feeler Gauges	Length 75 to 300mm 3 to 12"	ULM	BS957:2008
Tape Measure	20m	Rabone Chesterman	Manufacturer's spec
Crankshaft Deflection	0.0001"/Gauges	Trimos Linear Meas Device 001"	Manufacturer's spec
Protractors	Digital & Mechanical	Sine Bar/Slip gauges	Digital – Manufacturer's spec BS1685:2008
Engineers Square	18" max	Angle Plate/Slips Cylindrical Square	BS939:2007
Angle Plate	18" max	Angle Plate/Slips	BS5535:1978
Coatings Thickness Foils	1000microns	ULM	±0.005mm/Manufacturer's spec
Paint Thickness Foils	1000microns	Calibrated foils	Manufacturers's spec



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DIMENSIONAL METROLOGY (cont.)

<u>Device Type</u> Ultrasonic Thickness Meters	Range 120mm max	<u>Cal. Device</u> Panametric Test Block	Uncertainty & Notes Manufacturer's spec
3 point Bore Micrometers	0.25 to 6"	Calibrated rings/ULM	Manufacturer's spec
Engineers Level	0 to 14" Level	10" Sine bar/Slip Blocks	BS958:1968
Straight Edges	0 to 72" length	Slip blocks Granite Table	BS5204-Pt 2:1977
Screw Thread Gauges Plug Go/No Go	1/4 " up to 6: dia UN/Metric, BSP, Whitworth	ULM	BS1580:2007, BS3643:2007, BS919:200
Screw Thread Gauges Ring Go and No Go	>1/2 " up to 4" UN, Metric	ULM	BS1580:2007, BS3643:2007, BS919:2007
Plain Rings	0.2" up to 6" dia	ULM	BS4064 & BS4065:1966
Plate & Form Gauges		Baty Profile Projector	Drawing spec
Taper Ring & plug gauges	0 to 12" dia	Slip Blocks Calibrated Rollers	Drawing spec
Lead Gauge Setting Standard	Various	Baty Profile Projector	API Spec 7-2
Mass weights	0.1g to 31kg	A, N, D Analytical Balances	Calibration of weights M3 – F2 class

Last revision date: 18th October 2023 Last review date: 18th August 2023