

MASTER ISO 17025 ACCREDITED PARAMETER LIST

This list is a compilation of ISO 17025 accredited parameters across the entire network of J.A. King laboratories. Inclusion of parameters on this list does not necessarily indicate those capabilities exist at every branch however they are available throughout the network.

Please see individual accreditation scopes at jaking.com for specific parameters at each branch.

Category Parameter/Equipment Range/Frequency/Method Sound Measuring Equipment - 74 to 114 dB **Acoustical Quantities** (125 to 4000 Hz) Chemical **Conductivity Meters** 0.77 to 100,000 uS/cm Chemical pH Meters 4 pH, 7 pH, 10 pH Dimensional Angle Blocks/Angle Indicators/Protractor Indicators 1° to 180° Dimensional **Angle Gages** Up to 180° Dimensional **Angle Plates** Up to 36 in Dimensional Interim Verification of CMM-Articulated Arm Up to 40" (1000mm) Dimensional Bench Micrometers - Flatness and Parallelism Up to 12 in Dimensional Bench Micrometers - Force Up to 80 oz Bench Micrometers - Linearity Up to 20 in Dimensional Dimensional **Bore Gages** Up to 7 in Caliper Masters Up to 20 in Dimensional Dimensional Calipers Up to 96 in Dimensional Coating Thickness Gauges - Film Up to 60 Mils Dimensional Coating Thickness Gauges - Ultrasonic Up to 60 Mils Dimensional Combination Squares Up to 180° Dimensional Crimpers - Crimp Handle Force Up to 100 lb Dimensional Crimpers - Crimp Pull Force Up to 50 lb Dimensional Crimpers - Functional Diameter (0.011 to 0.250) in Dimensional Cylindrical Disc Up to 14 in Dimensional Cylindrical Pins Up to 13 in Dimensional Depth Gages Up to 48 in

Dimensional Diameter/Radius/Fixture Gages - Diameter Dimensional Diameter/Radius/Fixture Gages - Length Dimensional Diameter/Radius/Fixture Gages - Length Dimensional Diameter/Radius/Fixture Gages - Radius Dimensional Feeler Gages Up to 1 in Dimensional Feeler Gages Up to 48 in Dimensional Fixture Gauges Up to 48 in Dimensional Gage Block Comparators - Amplifier Gain Dimensional Gage Block Comparators - Contact Force (0 to 150) g Dimensional Gage Block Comparators - Contact Force Up to 48 in Dimensional Height Gauges Dimensional Height Gauges Dimensional Interim Verification of Coordinate Measuring Machines - Volumetric Performanc Dimensional Interim Verification of Coordinate Measuring Machines - XY,Z Linearity Up to 36 in Dimensional Micrometer Head Up to 20 in Dimensional Micrometer Master Up to 20 in Dimensional Micrometers - Inside Up to 20 in Dimensional Micrometers - Inside Up to 100 in Dimensional Micrometers - Outside Up to 100 in Dimensional Micrometers - Outside Up to 100 in Dimensional Micrometers - Vinder Up to 100 in Dimensional Micrometers - Vinder Up to 20 in Dimensional Micrometers - Vinder Up to 20 in Dimensional Micrometers - National Up to 00 in Dimensional Micrometers - Vinder Up to 100 in Dimensional Micrometers - Vinder Up to 36 in Dimensional Micrometers - Vinder Up to 36 in Dimensional Pin Gages Z Up to 1 in Dimensional Pin Gages	Dimensional	Dial Indicators	Up to 12 in
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	Dimensional	Spheres - External Diameter	Up to 20 in
Dimensional Squares Up to 36 in	Dimensional	Spline/Gear Gages (Plugs-Diameter/Rings-Diameter)	Up to 8 in
	Dimensional	Squares	Up to 36 in

Dimensional	Steel Rules	Up to 300 in (25ft)
Dimensional	Surface Plates - Grades AA, A, and B - Flatness	Up to 120 DL in
Dimensional	Surface Plates - Grades AA, A, and B - Repeatabiliy	0.002 in
Dimensional	Tape Measures	Up to 25 ft
Dimensional	Test Indicators	Up to 0.1 in
Dimensional	Thread Measuring Wires	(0.008 to 1.5) in
Dimensional	Thread Plugs - Major Diameter	.05 to 8 in
Dimensional	Thread Plugs - Pitch Diameter	.05 to 8 in
Dimensional	Thread Rings - Pitch Diameter (Solid/Adjustable)	0.05 to 8 in
Dimensional	Universal Length Measuring Machines - Flatness and Parallelism	Up to 8 in
Dimensional	Universal Length Measuring Machines - Force	Up to 80 oz
Dimensional	Universal Length Measuring Machines - Linearity	Up to 4 in
Dimensional	Vision Systems - X-Y Linearity	Upt o 18 in
Dimensional	Vision Systems - Z Axis	Up to 4 in
Dimensional Inspection	Length - X Axis	Up to 29 in (750 mm)
Dimensional Inspection	Length - Y Axis	Up to 39 in (1000 mm)
Dimensional Inspection	Length - Z Axis	Up to 25 in (500 mm)
Dimensional Inspection	Length - Volumetric	39 in (1000 mm)
Dimensional Inspection	Length - X-Y Measurements	6 in x 10 in
Dimensional Inspection	Roundness Measuring	4 μin (0.35 μm)
Dimensional Inspection	Surface Roughness	2 to 500 μin
Electrical	AC Current - Generate - Up to 100 Amps	10 Hz to 100 kHz*
Electrical	AC Power - Generate - Up to 20.9 kWatts	45 to 65 Hz
Electrical	AC Voltage - Generate - Up to 1100 Volts	10 Hz to 2MHz
Electrical	Amplitude Modulation - 5 to 99 %	0.15 to 1.3 GHz**
Electrical	Capacitance - Generate	40 pF to 11 mF
Electrical	DC Current - Generate	Up to 100 A
Electrical	DC Current - Generate - Clamp-On Meters	Up to 1000 A
Electrical	DC Current - Measure	Up to 300 A
Electrical	DC Power Generate	Up to 20.5 kW
Electrical	DC Voltage - Generate	Up to 1100 V

Electrical		
Licetrical	Distortion - Measure 0 to 99.9 %	20Hz to 100 kHz
Electrical	Frequency Modulation - Dev: 100 to 400 kHz	250 kHz to 1.3 GHz**
Electrical	Inductance - Generate	100 μH to 100 H
Electrical	Insulation Resistance - Generate	10 Ω to 100 GΩ
Electrical	Oscilloscopes - DC Voltage Amplitude (1 MΩ Load)	(0 to ± 130) V
Electrical	Oscilloscopes - DC Voltage Amplitude (50 Ω Load)	(0 to ± 6.6) V
Electrical	Oscilloscopes - Level Sine Wave: Amplitude	50 kHz 1100 MHz
Electrical	Oscilloscopes - Level Sine Wave: Flatness (Bandwidth)	50 kHz 1100 MHz
Electrical	Oscilloscopes - Level Sine Wave: Frequency	Up to 1100 MHz
Electrical	Oscilloscopes - Square Wave Amplitude (1 MΩ at 1 kHz)	1.0 mV to 130 Vpk - pk
Electrical	Oscilloscopes - Square Wave Amplitude (50 Ω at 1 kHz)	1.0 mV to 6.6 Vpk - pk
Electrical	Oscilloscopes - Time Markers (Into a 50 Ω Load)	5 s to 1 ns
Electrical	Oscilloscopes - Time Markers (Rise Time - 1 kHz to 2 MHz)	≤ 300 ps
Electrical	Oscilloscopes - Time Markers [Rise Time - (2 to 10 MHz)]	≤ 350 ps
Electrical	Phase Modulation - 200 Hz to 20 kHz	150 kHz to 1.3 GHz**
Electrical	Phase Source - (10 to 65) Hz	0 to 179 °
Electrical	Relative Power - Measure (10 MHz to 1.3 GHz)	(0 to -120) dB
Electrical	Resistance - Generate	Up to 1100 MΩ
Electrical	Resistance - Measure	Up to 1 GΩ
Electrical	RF Power - Measure (100 kHz to 18 GHz)	(-70 to 30) dBm / 100 pW to 100 mW
Electrical	RTD - Simulation (Pt 385, 100 Ω)	(-200 to 800) °C
Electrical	Thermocouples - Simulation/Measure (Type B)	(600 to 1820) °C
Electrical	Thermocouples - Simulation/Measure (Type E)	(-250 to 1000) °C
Electrical	Thermocouples - Simulation/Measure (Type J)	(-210 to 1200) °C
Electrical	Thermocouples - Simulation/Measure (Type K)	(-200 to 1372) °C
Electrical	Thermocouples - Simulation/Measure (Type N)	(-210 to 1300) °C
Electrical	Thermocouples - Simulation/Measure (Type R)	(0 to 1768) °C
Electrical	Thermocouples - Simulation/Measure (Type S)	(0 to 1768) °C
Electrical	Thermocouples - Simulation/Measure (Type T)	(-250 to 400) °C
Fluid Quantities	Viscosity Meters (Fixed Points)	16300 cP

Fluid Quantities	Gas Flow -Air and N2 - Laminar Flow	(0.01 to 10) slpm
Fluid Quantities	Gas Flow -Air and N2 - Sonic Flow	(10 to 120) slpm
Mechanical	Air Velocity	70 to 3000 FMP
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Indentor Display	0 to 100 durometer units
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Indentor Extension & Shape	25° to 40°
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Indentor Extension & Shape	Up to 0.105 in
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Indentor Extension & Shape	Up to 0.105 in
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Indentor Extension & Shape	up to 0.125 in
Mechanical	Durometer Calibration (Type A, B, C, D, DO, O, OO) - Spring Calibration - Force	Up to 45 N
Mechanical	Field Check Weight Comparison	Up to 1000 g
Mechanical	Force - Compression (Generate)	0 to 100,000 lbf
Mechanical	Force - Compression (Measure) (Field Only)	0 to 500,000 lbf
Mechanical	Force - Tension (Generate)	0 to 100,000 lbf
Mechanical	Force - Tension (Measure)	0 to 100,000 lbf
Mechanical	Indirect Verification of Brinell Hardness Testers	95.5 to 650 HBW
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR15N	70 to 92
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR15TW	74 to 93
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR30N	42 to 82
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR30TW	43 to 83
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR45N	20 to 72
Mechanical	Indirect Verification of Rockwell Hardness Testers - HR45TW	15 to 73
Mechanical	Indirect Verification of Rockwell Hardness Testers - HRA	20 to 84
Mechanical	Indirect Verification of Rockwell Hardness Testers - HRBW	40 to 100
Mechanical	Indirect Verification of Rockwell Hardness Testers - HRC	20 to 65
Mechanical	Indirect Verification of Rockwell Hardness Testers - HREW	70 to 100
Mechanical	Load Fixtures, Hangers, Package & Check Weights	Up to 70 lb
Mechanical	Mass - Fixed Points (Various)	1 mg to 50 lbs
Mechanical	Piston Operated Volumetric Apparatus	(1 to 10,000) μL
Mechanical	Pressure - Absolute	(0 to 60) inHg
Mechanical	Pressure - Differential	(0 to 28) inH2O
Mechanical	Pressure - Hydraulic	Up to 30,000 psig

Mechanical	Pressure - Pneumatic	Up to 10000 psig
Mechanical	Rotary Torque Tools - Pneumatic, DC, Pulse	(02 to 500) Nm
Mechanical	Scales and Balances	1 (mg) up to 120,000 (lb)
Mechanical	Speed (Contact) - RPM	(0.5 to 20 000) rpm
Mechanical	Speed (Non-Contact) - RPM	(0.5 to 200 000) rpm
Mechanical	Speed/RPM/Rate - Simulation	(2.5 to 200 000) rpm
Mechanical	Torque - Measuring Equipment (Wrenches)	4 in-lbf to 2000 ft-lbf
Mechanical	Torque Testers / Analyzers	Up to 2000 ft-lbf
Mechanical	Totalizer Meters - Distance Meter/Yardage Meters	Up to 2000 yrds
Mechanical	Vacuum	(0.01 to 30) inHg
Mechanical	Volumetric Measuring Devices	Up to 5000 mL
Optical Quantities	Illuminance – Light Meters (360 to 780 nm)	0.1 to 10,000 Lux
Thermodynamics	Plate Temperature - Infrared Devices	Ambient to 500 °C
Thermodynamics	Relative Humidity - Measure	(10 to 90) %RH
Thermodynamics	Temperature - Source	(-25 to 700) °C
Thermodynamics	Temperature - Measure	(-196 to 1450) °C
Time and Frequency	Frequency - Measure	Up to 26.5 GHz
Time and Frequency	Frequency - Source	Up to 3 GHz
Time and Frequency	Photo Tachometers	1 to 200,000 RPM
Time and Frequency	Timers and Stopwatches	1 to 86,400 s (24 Hours)

^{*} Frequency Ranges vary by output

This list is a compilation of ISO 17025 accredited parameters across the entire network of J.A. King laboratories. Inclusion of parameters on this list does not necessarily indicate those capabilities exist at every branch however they are available throughout the network. Please see individual accreditation scopes at jaking.com for specific parameters at each branch.

^{**} Carrier Signal Frequency