



## SCOPE OF ACCREDITATION

IAS Accreditation Number	CL-113
Accredited Entity	Orange County Calibration Service, Inc.
Address	1702 E. Sunview Dr. Orange, CA 92865
Contact Name	Ricky Goure, Owner
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Effective Date of Scope	August 24, 2017
Accreditation Standard	ISO/IEC 17025:2005

CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY <sup>1</sup> (CMC) (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
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<i>Mechanical</i>			
Tension	Up to 150,000 lbf	0.25% of reading	ASTM Standard E4, Follow the Force Method
Compression	Up to 1,000,000 lbf	0.25% of reading	ASTM Standard E4, Follow the Force Method
Load Cells	Up to 100 lbf	0.25% of reading	ASTM Standard E74, Class One Weights
Hand Torque Tools	Up to 12,000 lb.-in.	0.25% of reading	ASME Standard B 107.14, Torque Cell
Rockwell Hardness	HRA Scale	1.8 HRA	ASTM Standard E18, Indirect verification
	HRB Scale	1.8 HRBW	
	HRC Scale	1.8 HRC	
	HR15TW Scale	1.8 HR15TW	
	HR30TW Scale	1.8 HR30TW	
	HR45TW Scale	1.8 HR45TW	
	HR15N Scale	1.8 HR15N	
	HR30N Scale	1.8 HR30N	
	HR45N Scale	1.8 HR45N	
	HRLW Scale	1.8 HRLW	
Balances and Scales	Up to 20000 g / 0.001 g	4.5 g	Class One Weights Class F Weights
	Up to 690 lb. / 0.1 lb.	0.6 lb.	
<i>Dimensional</i>			
Calipers	Up to 6 in./0.001 in.	650 µin.	Grade 0 Gage Blocks
	>6 to 12 in./0.0005 in.	1535 µin.	
Spring Checker, LVDT, Linear Transducers	Up to 20 in./0.0001 in.	2653 µin.	Grade 0 Gage Blocks, (16" and 20" Grade AS1)
Micrometers	Up to 1 in./0.0001 in.	116 µin.	Grade 0 Gage Blocks
	2 in. to 3 in./0.0001 in.	150 µin.	



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Dial Indicators – Mechanical	Up to 1 in./0.001 in.	1200 µin.	Grade 0 Gage Blocks
Dial Indicators – Electronic	Up to 4 in./0.0001 in.	2100 µin.	Grade 0 Gage Blocks
Extensometer/De flectometer/ Compressometer	Up to 1 in. / 0.0001 in.	0.25% of reading	ASTM Standard E83, Comparison to Class B-1 Extensometer
Crosshead Speed	Up to 20 in./min	0.005 in. in 0.2 min.	ASTM Standard E2658, Stopwatch, Gage Blocks to 20in
Crosshead Position	Up to 20 in. / 0.001 in.	0.0029 in.	ASTM Standard E2309, Dial Indicator, Gage Blocks to 20in, High Precision Ruler
	>20 to 36 in. / 0.001 in.	0.0042 in.	
Optical Comparator	10X, 20X, 31.25X, 50X, 62.5X, 100X	0.5% of reading	Linear Glass Scale and Magnification Check Scale

\*‘Calibration and Measurement Capability’ is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation (at a confidence level of 95% with a coverage factor of 2)