



UNITED ARAB EMIRATES
MINISTRY OF INDUSTRY
& ADVANCED TECHNOLOGY



شهادة الاعتماد Accreditation Certificate

Conformity Assessment Body's ID: NAL 232

Metric Calibration and Testing Laboratory
P.O Box: 3504 , Warehouse No.12, Industrial Area 15 , Sharjah ,
U.A.E., Sharjah, United Arab Emirates

Accredited according to the International Standard ISO/IEC
17025₁ to undertake calibrations as specified in the attached
Accreditation Scope.

Accredited on: 28/03/2025

Expires on: 27/03/2028

الرمز التعريفي لجهة تقييم المطابقة: NAL 232

معمل المعايرة والاختبار المترى
صندوق بريد: 3504 ، مستودع رقم 12 ، المنطقة الصناعية 15 ، الشارقة ،
الإمارات العربية المتحدة، الشارقة، الإمارات العربية المتحدة

حاصل على الإعتماد لطرق المعايرة الواردة في وثيقة المجال المرفقة وفقاً
للمواصفة الدولية ISO/IEC 17025₁

تاريخ منح الاعتماد: 28/03/2025

تاريخ الانتهاء: 27/03/2028

1 Accreditation in accordance with the International Standard ISO/IEC
17025:2017 "General requirements for the competence of testing and calibration
laboratories" and the relevant ENAS and ILAC requirements.

This certificate is invalid without the attached scope of accreditation, which is
subjected to annual surveillances as per ENAS procedure. Certificate can be
updated or re-issued until the expiry date defined above. The validity of the
certificate is subjected to continuous compliance with the requirements of the
accreditation system. The lab is responsible for the results of its calibrations.

This is an electronic certificate and does not require stamp and signature.
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Initial Accreditation Date: 28/03/2025

1 وفقاً لمتطلبات المواصفة الدولية ISO/IEC 17025:2017 "المتطلبات العامة لكفاءة مختبرات
الفحص والمعايرة" والمتطلبات ذات العلاقة الخاصة بنظام الإعتماد الوطني الإماراتي ENAS والمنظمة
الدولية لاعتماد المختبرات ILAC.

مجال الاعتماد جزء أساسي من هذه الشهادة حيث تخضع مجالات الاعتماد المذكورة في الوثيقة المرفقة
لعمليات متابعة لاحقة من قبل نظام الإعتماد الوطني الإماراتي ENAS، وتعتبر هذه الشهادة صالحة وقابلة
للتحديث وإعادة الاصدار حتى تاريخ الانتهاء المدون اعلاه شريطة استمرار المختبر المذكور اعلاه في
تطبيق متطلبات نظام الاعتماد سالف الذكر. يتحمل المختبر مسؤولية نتائج المعايرة الصادرة عنه.

هذه الشهادة صدرت إلكترونياً ولا تحتاج لختم أو توقيع، أي كشط أو تغيير في هذه الشهادة يلغيها.

تاريخ منح الإعتماد لأول مرة: 2025/03/28



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www.moiat.gov.ae



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Calibration Field/ Quantity/ Property	Measurand / Equipment	Measurement Range	Expanded Measurement Uncertainty (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P)/Client-site
Linear and angular measurements	Angle Gauge	1" to to 90 °	34 arc sec	MCL-QSD-CP-DIM-ANG-001	P
Linear and angular measurements	Bench Centre	(Coaxiality & Parallelism) 50 mm to 300 mm	5.8 µm	MCL-QSD-CP-DIM-BC-001	S
Linear and angular measurements	Bevel Protector and Combination set (Digital)	-90 ° to 0° to 90° (L.C = 0.01 deg)	27 arc sec	MCL-QSD-CP-DIM-BVP-001	P
Linear and angular measurements	Bevel Protector and Combination set (Analog)	-90 ° to 0° to 90° (L.C = 5 Min)	3.5 arc min	MCL-QSD-CP-DIM-BVP-001	P
Linear and angular measurements	Bore Gauge with and without dial	(Only transmission) 0 to 1 mm	2.6 µm	MCL-QSD-CP-DIM-BDG-001	P
Linear and angular measurements	Caliper (Digital , Dial , Vernier , Low Force)	0.01mm to 300 mm	7.7 µm	MCL-QSD-CP-DIM-CAL-001	P
Linear and angular measurements	Caliper (Digital , Dial , Vernier , Low Force)	> 300 mm to 600 mm	12 µm	MCL-QSD-CP-DIM-CAL-001	P
Linear and angular measurements	Caliper (Digital , Dial , Vernier , Low Force)	> 600 mm to 1000 mm	18 µm	MCL-QSD-CP-DIM-CAL-001	P

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Linear and angular measurements	Angle Measurement Clinometer & Inclinator	-90 ° to 0° to 90°	27 arc sec	MCL-QSD-CP-DIM-CLM-001	P
Linear and angular measurements	Coating Thickness Gauge	0.05 mm to to 1.015 mm	6.1 µm	MCL-QSD-CP-DIM-CTG-001	P
Linear and angular measurements	Comparator Standard (Flatness Only)	5 mm X 5 mm to 300 X 300 mm	4.5 µm	MCL-QSD-CP-DIM-CSTD-001	P
Linear and angular measurements	Cylindrical Pins	0.001 mm to 25 mm	2.6 µm	MCL-QSD-CP-DIM-CP-001	P
Linear and angular measurements	Depth gauge (Digital, Dial, Vernier)	0.001mm to 600 mm	12 µm	MCL-QSD-CP-DIM-DG-001	P
Linear and angular measurements	Depth gauge (Digital, Dial, Vernier)	> 600 mm to 1000 mm	17 µm	MCL-QSD-CP-DIM-DG-001	P
Linear and angular measurements	Depth Micrometer (Digital, Dial, Vernier)	0.001 mm to 600 mm	12 µm	MCL-QSD-CP-DIM-DG-001	P
Linear and angular measurements	Depth Micrometer (Digital, Dial, Vernier)	> 600 to 1000 mm	17 µm	MCL-QSD-CP-DIM-DG-001	P
Linear and angular measurements	Plunger type indicators (Dial , Digital gauge)	0.0001 to 1 mm (L.C - 0.001 mm)	2.6 µm	MCL-QSD-CP-DIM-PD-001	P
Linear and angular measurements	Plunger type indicators (Dial , Digital gauge)	0.0001 to 10 mm (L.C- 0.01 mm)	14 µm	MCL-QSD-CP-DIM-PD-001	P

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Linear and angular measurements	Plunger type indicators (Dial , Digital gauge)	0.0001 to 300 mm (L.C- 0.1 mm)	0.2 mm	MCL-QSD-CP-DIM-PD-001	P
Linear and angular measurements	Lever type indicators (Dial , Digital gauge)	0.0001 to 0.14 mm (L.C - 0.001 mm)	2.6 µm	MCL-QSD-CP-DIM-DTI-001	P
Linear and angular measurements	Lever type indicators (Dial , Digital gauge)	0.0001 to 2 mm (L.C- 0.01 mm)	14 µm	MCL-QSD-CP-DIM-DTI-001	P
Linear and angular measurements	External thickness gauge (Dial , Digital gauge)	0.001 mm to 200 mm	1.2 µm	MCL-QSD-CP-DIM-ETG-001	P
Linear and angular measurements	Internal thickness gauge (Dial , Digital)	0.001 mm to 200 mm	1.2 µm	MCL-QSD-CP-DIM-ITG-001	P
Linear and angular measurements	Engineer's Parallels	10 mm to 400 mm	4 µm	MCL-QSD-CP-DIM-EP-001	P
Linear and angular measurements	Digital & Analog- External Micrometer (Flat, Blade , Point , Universal / Multi-Anvil , tube , disc, snap, non-rotating , Sheet material , V- Anvil , Pitch , Gear Tooth) etc.	0.0001 mm to 50 mm	5.8 µm	MCL-QSD-CP-DIM-EMM-001	P
Linear and angular measurements	Digital & Analog- External Micrometer (Flat, Blade , Point , Universal / Multi-Anvil , tube , disc, snap, non-rotating , Sheet material , V- Anvil , Pitch , Gear Tooth) etc.	> 50 mm to 500 mm	8.2 µm	MCL-QSD-CP-DIM-EMM-001	P

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Linear and angular measurements	Digital & Analog- External Micrometer (Flat, Blade , Point , Universal / Multi-Anvil , tube , disc, snap, non-rotating , Sheet material , V- Anvil , Pitch , Gear Tooth) etc.	> 500 mm to 1000 mm	15 μ m	MCL-QSD-CP-DIM-EMM-001	P
Linear and angular measurements	Feeler gauge	0.01 mm to 2 mm	2.6 μ m	MCL-QSD-CP-DIM-FG-001	P
Linear and angular measurements	Flush pin gauge	0.5 mm to 200 mm	3.0 μ m	MCL-QSD-CP-DIM-FPG-001	P
Linear and angular measurements	Foils	0.0001 mm to 30 mm	1.2 μ m	MCL-QSD-CP-DIM-FOI-001	P
Linear and angular measurements	Hegman gauge	0.1 μ m to 100 μ m	2.6 μ m	MCL-QSD-CP-DIM-HMG-001	P
Linear and angular measurements	Height Gauge (Digital, Dial , Vernier)	0.01 mm to 600 mm	8 μ m	MCL-QSD-CP-DIM-HIG-001	P/S
Linear and angular measurements	Height Gauge (Digital, Dial , Vernier)	> 600 to 1000 mm	16 μ m	MCL-QSD-CP-DIM-HIG-001	P/S
Linear and angular measurements	Internal / Stick Micrometer	0.0001 mm to 3000 mm	12 μ m	MCL-QSD-CP-DIM-STM-001	P
Linear and angular measurements	Piston Caliper	0.001 mm to 200 mm	13 μ m	MCL-QSD-CP-DIM-ITG-001	P

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Linear and angular measurements	Plain Plug gauges	0.5 mm to 500 mm	$y = 8.809e-06 \cdot x + 2.596e-03$ mm Where x is measured value in mm	MCL-QSD-CP-DIM-GNLG-001	P
Linear and angular measurements	Setting rod & Length bar	1 mm to 500 mm	2.6 μ m	MCL-QSD-CP-DIM-SR-001	P
Linear and angular measurements	Setting rod & Length bar	> 500 mm to 1000 mm	15 μ m	MCL-QSD-CP-DIM-SR-001	P
Linear and angular measurements	Sine Bar - Linear	Centre to Centre Distance Flatness of surface & Parallelism (25 mm to 500 mm)	9.1 μ m	MCL-QSD-CP-DIM-SINB-001	P
Linear and angular measurements	Sine Bar - Angle	1 " to 45 deg	43 arc sec	MCL-QSD-CP-DIM-SINB-001	P
Linear and angular measurements	Snap gauge & Gap Gauge & Width Gauge	0.5 mm to 2 mm	0.3 μ m	MCL-QSD-CP-DIM-SNP-001	P
Linear and angular measurements	Snap gauge & Gap Gauge & Width Gauge	> 2 mm to 500 mm	1.7 μ m	MCL-QSD-CP-DIM-SNP-001	P
Linear and angular measurements	Precision Spirit Level	25 mm to 300 mm (base length)	6.3 μ m	MCL-QSD-CP-DIM-PSL-001	P

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Linear and angular measurements	Surface Plate Granit / Cast iron / Steel Surface plate	300 X 300 mm to 3000 X 3000 mm	2.3 µm	MCL-QSD-CP-DIM-GSPLT-001	P/S
Linear and angular measurements	Ultrasonic thickness gauge	0.5 mm to 1000 mm	9.7 µm	MCL-QSD-CP-DIM-UTG-001	P
Linear and angular measurements	V-block	25 X 25 X 25 mm to 500 X 500 X 500 mm	5.7 µm	MCL-QSD-CP-DIM-VB-001	P
Linear and angular measurements	Caliper Checker	1 mm to 1000 mm	15 µm	MCL-QSD-CP-DIM-CHK-001	P
Linear and angular measurements	2D Linear Height Measurement	0.0001 mm to 1000 mm	14 µm	MCL-QSD-CP-DIM-HIG-001	P/S
Linear and angular measurements	Step Gauge (Gauge)	0.001 mm to 600 mm	9.3 µm	MCL-QSD-CP-DIM-STP-001	P
Linear and angular measurements	Step Gauge (Indicating Instruments)	0.001 mm to 600 mm	12 µm	MCL-QSD-CP-DIM-STP-001	P
Linear and angular measurements	3-Points Internal Micrometers , Boremetrics , Digimatic Holtests , Digital Holtests , Digital Three Points Internal Micrometers , Holtests	10 mm to 300 mm	$y = 6.034e-06 \cdot x + 4.140e-03$ mm Where x is measured value in mm	MCL-QSD-CP-DIM-TPM-001	P
Linear and angular measurements	Micrometer Head	0.0001 mm to 50 mm	1.2 µm	MCL-QSD-CP-DIM-MH-001	P

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Linear and angular measurements	Riser Block	0.5 to 1000 mm	15 µm	MCL-QSD-CP-DIM-CHK-001	P
Linear and angular measurements	Thread Measuring Wire	0.17 mm to 6.35	2.6 µm	MCL-QSD-CP-DIM-TMW-001	P
Linear and angular measurements	LVDT probe with indicator	0.0001 mm to 1000 mm	3.2 µm	MCL-QSD-CP-DIM-LVDT-001	P
Linear and angular measurements	LVDT probe without indicator	0.0001 mm to 1000 mm	10 µm	MCL-QSD-CP-DIM-LVDT-001	P
Linear and angular measurements	Parallel Thread plug gauge	0.5 mm to 50 mm	5 µm	MCL-QSD-CP-DIM-TPG-001	P
Linear and angular measurements	Dial Calibration Tester	0.0001 mm to 50 mm	0.9 µm	MCL-QSD-CP-DIM-DCT-001	P
Linear and angular measurements	Gauge Block Accessories (Jaws' Flatness)	1 mm to 1000 mm	4.2 µm	MCL-QSD-CP-DIM-GBA-001	P
Linear and angular measurements	Gauge Block Accessories (Height)	1 mm to 1000 mm	7.2 µm	MCL-QSD-CP-DIM-GBA-001	P
Linear and angular measurements	Test Sieves	5 mm to 300 mm	31 µm	MCL-QSD-CP-DIM-TS-001	P
Linear and angular measurements	Profile Projector , Video Measuring System and optical instruments	Linear - 300 X 300 mm	1.2 µm	MCL-QSD-CP-DIM-PRJ-001	S

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Linear and angular measurements	Profile Projector , Video Measuring System and optical instruments	Magnification - 0.1x to 100x	1.2 μm	MCL-QSD-CP-DIM-PRJ-001	S
Linear and angular measurements	Profile Projector , Video Measuring System and optical instruments	Angle - 1" to 360 deg	14 arc sec	MCL-QSD-CP-DIM-PRJ-001	S
Linear and angular measurements	Cylindrical setting master	0.5 mm to 300 mm	4.7 μm	MCL-QSD-CP-DIM-CSM-001	P
Linear and angular measurements	Inside Micormter Caliper	0.001 mm to 250 mm	6.7 μm	MCL-QSD-CP-DIM-IMC-001	P
Linear and angular measurements	Measuring Microscope 1) Microscope2) Measuring Microscope3) Toolmakers Microscope 4) Vision Measuring Machines 5) Zoom stereo Microscopes6) Smart scopes	X-Y Axis Linearity 0.01 mm to 300 mm	14 μm	MCL-QSD-CP-DIM-PRJ-001	P/S
Linear and angular measurements	Metal Rules / Steel Rules	0.5 mm to 5000 mm	88 μm	MCL-QSD-CP-DIM-MR-001	P
Linear and angular measurements	Steel Tape Measures Pie, circumference tape Measure Digimatic Tape Measures Digital Tape Measures Steel Tape Scales Measuring Tapes Measuring Wheel .	0.5 mm to 5000 mm	88 μm	MCL-QSD-CP-DIM-STT-001	P
Linear and angular measurements	Laser distance Meter	0.1 mm to 1 m	72 μm	MCL-QSD-CP-DIM-LDM-001	P

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Linear and angular measurements	Laser distance Meter	> 1 m to 20 m	12 mm	MCL-QSD-CP-DIM-LDM-001	P
Linear and angular measurements	Jig, Fixture, Mold, and Die Dimension	0.01 mm to 300 mm	31 µm	MCL-QSD-CP-DIM-JFM-001	P
Linear and angular measurements	Tri- square	1 mm to 1000 mm	10 µm	MCL-QSD-CP-DIM-TSQ-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	20 µl to 50 µl	0.06 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 50 µl to 100 µl	0.2 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 100 µl to 200 µl	0.3 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 200 µl to 500 µl	0.6 µl	MCL-QSD-CP-VOL-001	P

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Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 500 µl to 1000 µl	1.8 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 1000 µl to 2000 µl	2.4 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 2000 µl to 5000 µl	5.9 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 5000 µl to 10000 µl	12 µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Volume of Liquids Piston operated volumetric apparatus (pipettes, dispensers) (Single and Multi-Channel) All types - Type D and Type A	> 10 ml to 30 l	$y = 7.665e-04 \cdot x + 4.335e-03$ ml Where = x is measured value in ml	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	0.5 ml to 10 ml	0.02 ml	MCL-QSD-CP-VOL-002	P

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Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	20 ml	0.02 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	50 ml	0.03 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	100 ml	0.03 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	200 ml	0.05 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	500 ml	0.12 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	1000 ml	0.3 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	2000 ml	0.5 ml	MCL-QSD-CP-VOL-002	P

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Accreditation Scope

Metric Calibration and Testing Laboratory, NAL 232
Calibration Laboratory, (ISO/IEC 17025:2017)

P.O Box: 3504 , Warehouse No.12, Industrial Area 15 , Sharjah , U.A.E., Sharjah, United Arab Emirates

Issue Date: 28/03/2025

Expiry Date: 27/03/2028

Issue No: 1

Measurement of volume, mass, density, viscosity	Laboratory glassware One - Mark volumetric flasks- Narrow necked flasks , Wide necked flasks (All Type - Class A , Class B)	5000 ml	1.2 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	20 µl to 5 ml	0.04 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	> 5 ml to 10 ml	0.08 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	> 10 ml to 20 ml	0.2 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	> 20 ml to 50 ml	0.3 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	> 50 ml to 100 ml	0.3 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B , Type 2)	> 100 ml to 200 ml	0.6 ml	MCL-QSD-CP-VOL-002	P

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Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B, Type 2)	> 200 ml to 500 ml	1.0 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B, Type 2)	> 500 ml to 1000 ml	2.0 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated measuring Cylinders - All types (Type 1a, Class B, Type 1b, Class B, Type 2)	> 1000 ml to 2000 ml	2.9 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated pipettes (All type - Class A, Class AS, Class B)	20 µl to 1 ml	3.9 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated pipettes (All type - Class A, Class AS, Class B)	> 1 ml to 2 ml	7.7 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated pipettes (All type - Class A, Class AS, Class B)	> 2 ml to 5 ml	19 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated pipettes (All type - Class A, Class AS, Class B)	> 5 ml to 10 ml	39 µl	MCL-QSD-CP-VOL-002	P

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Measurement of volume, mass, density, viscosity	Laboratory glassware Graduated pipettes (All type - Class A , Class AS, Class B)	> 10 ml to 25 ml	70 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Volumetric apparatus - Burettes (Motor-driven , Hand driven)	20 µl to 10 ml	20 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Volumetric apparatus - Burettes (Motor-driven , Hand driven)	> 10 ml to 25 ml	20 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Volumetric apparatus - Burettes (Motor-driven , Hand driven)	>25 ml to 50 ml	40 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Volumetric apparatus - Burettes (Motor-driven , Hand driven)	> 50 ml to 100 ml	70 µl	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	20 µl to 0.5 ml	0.02 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	1 ml	0.01 ml	MCL-QSD-CP-VOL-002	P

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Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	2 ml	0.01 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	5 ml	0.02 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	10 ml	0.02 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	20 ml	0.02 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	25 ml	0.04 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	50 ml	0.04 ml	MCL-QSD-CP-VOL-002	P
Measurement of volume, mass, density, viscosity	Single Volume Pipettes (one mark and two mark)	100 ml	0.04 ml	MCL-QSD-CP-VOL-002	P

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Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Single Stroke Dispensers and Multiple delivery dispensers	20 µl to 200 µl	$y = 1.000e-03 \cdot x + 4.000e-02 \mu l$ Where = x is measured value in µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Single Stroke Dispensers and Multiple delivery dispensers	>200 µl to 2000 µl	$y = 1.178e-03 \cdot x + 4.444e-03 \mu l$ Where = x is measured value in µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Single Stroke Dispensers and Multiple delivery dispensers	> 2 ml to 200 ml	$y = 1.071e-05 \cdot x + 2.186e-04 ml$ Where = x is measured value in ml	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Single Stroke Dispensers and Multiple delivery dispensers	> 200 ml to 2000 ml	$y = 1.180e-05 \cdot x + 4.491e-18 ml$ Where = x is measured value in ml	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Single Stroke Dispensers and Multiple delivery dispensers	> 2000 ml to 20000 ml	$y = 1.310e-03 \cdot x - 2.596e+00 ml$ Where = x is measured value in ml	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Dilutors	> 50 µl to 500 µl	$y = 2.489e-03 - 6.444e-02 \mu l$ Where = x is measured value in µl	MCL-QSD-CP-VOL-001	P

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Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Dilutors	> 500 µl to 5000 µl	$y = 1.049e-03 \cdot x + 6.556e-01 \mu l$ Where x is measured value in µl	MCL-QSD-CP-VOL-001	P
Measurement of volume, mass, density, viscosity	Piston-operated volumetric apparatus- Dilutors	> 5 ml to 100 ml	$y = 6.043e-03 \cdot x - 2.432e-02 ml$ Where x is measured value in ml	MCL-QSD-CP-VOL-001	P
Flow	Liquid Flow Meters (Medium - Diesel Fuel)	100 l/min to 300 l/min (Flow Rate)	0.2% of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Diesel Fuel)	> 300 l / min to 600 l/min (Flow Rate)	0.3 % of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Diesel Fuel)	> 600 l/min to 1200 l/min (Flow Rate)	0.3 % of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Water)	5.7 m ³ /h to 57 m ³ /h (Flow Rate)	1.3 % of rdg	MCL-QSD-CP-FLW-002	P/S
Flow	Air Flow Meters	10 SLPM to 100 SLPM (Flow Rate)	0.6 % of rdg	MCL-QSD-CP-FLW-003	P/S
Flow	Air Flow Meters	>100 SLPM to 1000 SLPM (Flow Rate)	0.8% of rdg	MCL-QSD-CP-FLW-003	P/S

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Flow	Liquid Flow Meters (Medium - Diesel Fuel)	1500 liter to 15000 liter - (Totalizer)	0.2 % of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Diesel Fuel)	> 15000 to 30000 liter (Totalizer)	0.3 % of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Diesel Fuel)	> 30000 to 60000 liter (Totalizer)	0.3 % of rdg	MCL-QSD-CP-FLW-001	P/S
Flow	Liquid Flow Meters (Medium - Water)	4.7 m ³ to 47.49 m ³ (Totalizer)	1.3 % of rdg	MCL-QSD-CP-FLW-002	P/S
Flow	Air Flow Meters	500 Standard Liter to 5000 Standard Liter (Totalizer)	0.6 % of rdg	MCL-QSD-CP-FLW-003	P/S
Flow	Air Flow Meters	> 5000 to 50000 Standard Liter (Totalizer)	0.8 % of rdg	MCL-QSD-CP-FLW-003	P/S
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F2 accuracy)	1 mg	0.008 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	2 mg	0.007 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	5 mg	0.006 mg	MCL-QSD-CP-M-002	P

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Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	10 mg	0.006 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	20 mg	0.007 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	50 mg	0.007 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	100 mg	0.007 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	200 mg	0.008 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	500 mg	0.008 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	1 g	0.009 mg	MCL-QSD-CP-M-002	P

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Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	2 g	0.008 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	5 g	0.018 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	10 g	0.016 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	20 g	0.023 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	50 g	0.042 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	100 g	0.10 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	200 g	0.17 mg	MCL-QSD-CP-M-002	P

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Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	500 g	0.71 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	1000 g	1.2 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	2000 g	6.6 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F1 accuracy)	5000 g	7.6 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F2 accuracy)	10000 g	17 mg	MCL-QSD-CP-M-002	P
Measurement of volume, mass, density, viscosity	Conventional Mass & Unknow Masses (Calibration of weights of class F2 accuracy)	20000 g	60 mg	MCL-QSD-CP-M-002	P
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	1 mg to 20 g	0.07 mg	MCL-QSD-CP-M-001	P/S

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Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 20 g to 50 g	0.09 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 50 g to 100 g	0.18 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 100 g to 200 g	0.23 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 200 g to 500 g	1.4 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 500 g to 1000 g	1.6 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 1000 g to 2000 g	13 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 2000 g to 5000 g	14 mg	MCL-QSD-CP-M-001	P/S

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Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 5000 g to 10000 g	16 mg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 10000 g to 20000 g	0.14 g	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 20000 g to 30000 g	0.14 g	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 30 kg to 300 kg	0.15 kg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 300 kg to 1000 kg	0.14 kg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 1000 kg to 3000 kg	0.71 kg	MCL-QSD-CP-M-001	P/S
Measurement of force, weight and pressure	Weighing instruments 1) Mass/ Electronic loading direct reading balance. 2) Batching Plants 3) Electronic Balances	> 3000 kg to 10000 kg	2.1 kg	MCL-QSD-CP-M-001	P/S

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Measurement of force, weight and pressure	ShoreA/B/O/D/C/DO/OO/OOO(Spring Force)	0.1 to 100 Shore A/B/O/D/C/DO/OO/OOO	0.003% rdg	MCL-QSD-CP-F-ASTM D2240-001	P
Measurement of force, weight and pressure	Displacement System used in the Testing Machine with or without indicator	0.1 to 1000 mm	0.003% rdg	MCL-QSD-CP-F-ASTM E23095-001	S
Measurement of force, weight and pressure	Verification of Test Speed of Testing Machinewith or without indicator	0.1 to 1000 mm/min	1.8 % rdg	MCL-QSD-CP-F-ASTM E2658-001	S
Measurement of force, weight and pressure	Brinell HardnessTester	Test Force 9.807 N to 29.42 kN	0.32% rdg	MCL-QSD-CP-F-HRD-001	S
Measurement of force, weight and pressure	Rockwell HardnessTester Test force ofRockwell HardnessTester & SuperficialHardness Tester	Pre Load 29.42 N to 98.07 N	0.15 % rdg	MCL-QSD-CP-F-HRD-001	S
Measurement of force, weight and pressure	Rockwell Hardness Tester Test force of Rockwell Hardness Tester & Superficial Hardness Tester	Total Load 147.1 N to 1.471 kN	0.21 % rdg	MCL-QSD-CP-F-HRD-001	S
Measurement of force, weight and pressure	Vickers & MicroVickers HardnessTester	0.009807 N to 980.7 N	$y = 1.400e-03x + 1.275e-05$ N Where x is measured value in N	MCL-QSD-CP-F-HRD-001	S

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Accreditation Scope

Metric Calibration and Testing Laboratory, NAL 232
Calibration Laboratory, (ISO/IEC 17025:2017)

P.O Box: 3504 , Warehouse No.12, Industrial Area 15 , Sharjah , U.A.E., Sharjah, United Arab Emirates

Issue Date: 28/03/2025

Expiry Date: 27/03/2028

Issue No: 1

Measurement of force, weight and pressure	Charpy/ IZOD Impact Testing Machine (Plastic & Metal) SPT Hammer Energy Verification	0.5 to 750 J	1.07 % rdg	MCL-QSD-CP-F-DVIM-001	S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	1 N to 10 N	0.22 % of rdg	MCL-QSD-CP-F-DKD R3-3--001	P/S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 10 N to 500 N	0.11 % of rdg	MCL-QSD-CP-F-DKD R3-3--001	P/S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 500 N to 5 kN	0.15 % of rdg	MCL-QSD-CP-F-DKD R3-3--001	P/S

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Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 5 kN to 50 kN	0.24 % of rdg	MCL-QSD-CP-F-DKD R3-3--001	P/S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 50 kN to 500 kN	0.16 % of rdg	MCL-QSD-CP-F-DKD R3-3--001	P/S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	1 N to 10 N	0.22 % of rdg	MCL-QSD-CP-F-BS8422-001	P/S

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Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 500 N to 5 kN	0.15 % of rdg	MCL-QSD-CP-F-BS8422-001	P/S
Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 5 kN to 50 kN	0.24 % of rdg	MCL-QSD-CP-F-BS8422-001	P/S

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Measurement of force, weight and pressure	Force measuring devices both Compression and Tension with indicator and without indicator 1) Soil testing rings, 2) Proving rings 3) Load cells without classification (industrial loadcell) 4) Pull out and Pull off Tester . 5) Hydraulic Jack , 6) Force gauge 7) Dynamometer 8) Push Pull Gauge 9) Wire Cable Tension Meter	> 50 kN to 500 kN	0.16 % of rdg	MCL-QSD-CP-F-BS8422-001	P/S
Measurement of force, weight and pressure	Bolt Tension Meter	0.2 to 2 N-m	1.3 % of rdg	MCL-QSD-CP-F-BTM-001	P/S
Measurement of force, weight and pressure	Bolt Tension Meter	2 N-m to 20 N-m	1.3 % of rdg	MCL-QSD-CP-F-BTM-001	P/S
Measurement of force, weight and pressure	Bolt Tension Meter	20 N-m to 200 N-m	1.2 % of rdg	MCL-QSD-CP-F-BTM-001	P/S
Measurement of force, weight and pressure	Bolt Tension Meter	200 N-m to 2000 N-m	1.2 % of rdg	MCL-QSD-CP-F-BTM-001	P/S

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Issue No: 1

Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	1 N to 10 N	0.23 % of rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S
Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	> 10 N to 500 N	0.11 % rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S
Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	> 500 N to 5 kN	0.22 % of rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S

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Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	> 50 kN to 500 kN	0.11 % of rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S
Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	> 500 kN to 1000 kN	0.12 % of rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S

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Measurement of force, weight and pressure	Material Testing Machine both compression and Tension with indicator and without indicator 1) Static Uniaxial Testing Machine . 2) CBR and Marshall Testing Machines. 3) Calibration of Point Load Tester. 4) Force Testing Machine 5) Elongation Testers 6) Spring Force Testers 7) Crimpt Testers 8) Material Force Testing 9) Spring Load Testers 10) Flexural machine, 11) UCS machine,	> 1000 kN to 3000 kN	0.15 % of rdg	MCL-QSD-CP-F-7500-001 & MCL-QSD-CP-F-ASTME4-001	S
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	1 to 10 N	0.18 % of rdg	MCL-QSD-CP-F-EN 12390-001	P
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 10 N to 500 N	0.10 % of rdg	MCL-QSD-CP-F-EN 12390-001	S
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 500 N to 5 kN	0.22 % of rdg	MCL-QSD-CP-F-EN 12390-001	S
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 5 kN to 50 kN	0.21 % of rdg	MCL-QSD-CP-F-EN 12390-001	S
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 50 kN to 500 kN	0.08 % of rdg	MCL-QSD-CP-F-EN 12390-001	S

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Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 500 kN to 1000 kN	0.06 % of rdg	MCL-QSD-CP-F-EN 12390-001	S
Measurement of force, weight and pressure	Compression Machine Stability & Accuracy Test (with or without indicator)	> 1000 kN to 3000 kN	0.16 % of rdg	MCL-QSD-CP-F-EN 12390-001	(S)
Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments Tension with or without indicator	500 N to 5 kN	0.10 % of rdg	MCL-QSD-CP-F-376-001	P
Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments Tension with or without indicator	> 5 kN to 50 kN	0.18 % of rdg	MCL-QSD-CP-F-376-001	P
Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments Tension with or without indicator	> 50 kN to 500 kN	0.11 % of rdg	MCL-QSD-CP-F-376-001	P
Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments a Compression with or without indicator	500 N to 5 kN	0.14 % of rdg	MCL-QSD-CP-F-376-001	P
Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments a Compression with or without indicator	>5 kN to 50 kN	0.21 % of rdg	MCL-QSD-CP-F-376-001	P

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Measurement of force, weight and pressure	Load Cells/ Force Proving Instruments a Compression with or without indicator	> 50 kN to 500 kN	0.07 % of rdg	MCL-QSD-CP-F-376-001	P
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	0.1 to 10 N	0.21 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 10 N to 500 N	0.10 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 500 N to 5 kN	0.17 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 5 kN to 50 kN	0.23 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 50 kN to 500 kN	0.35 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 500 kN to 1000 kN	0.11 % of rdg	MCL-QSD-CP-F-FSMV-001	S

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Measurement of force, weight and pressure	FSM (Compression & Tension) with or without indicator	> 1000 kN to 3000 kN	0.39 % of rdg	MCL-QSD-CP-F-FSMV-001	S
Measurement of force, weight and pressure	Extensometer with or without indicator	0.1 to 10 mm	3.1 µm	MCL-QSD-CP-F-EXT-001	P/S
Measurement of force, weight and pressure	Extensometer with or without indicator	>10 mm to 200 mm	29 µm	MCL-QSD-CP-F-EXT-001	P/S
Measurement of force, weight and pressure	Extensometer with or without indicator	>200 mm to 1000 mm	0.29 mm	MCL-QSD-CP-F-EXT-001	P/S
END					

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