

Schedule

Issue date: 26 November 2024
Valid Until: -



NO: SAMM 152

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LABORATORY LOCATION/ CENTRAL OFFICE: 	Mitutoyo (Malaysia) Sdn Bhd Mah Sing Integrated Industrial Park 4, Jalan Utarid U5/14 Section U5 40150 Shah Alam, Selangor , 40150, SELANGOR MALAYSIA
ACCREDITED SINCE :	26 NOVEMBER 2024
FIELD(S) OF CALIBRATION:	DIMENSIONAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

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CENTRAL LOCATION	Mitutoyo (Malaysia) Sdn Bhd Mah Sing Integrated Industrial Park 4, Jalan Utarid U5/14 Section U5 40150 Shah Alam, Selangor , 40150, Selangor
FIELD(S) OF CALIBRATION :	DIMENSIONAL,

SCOPE OF CALIBRATION : DIMENSIONAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
External Micrometer 25 Mm, 50 Mm And 100 Mm Frame	0.001 to 100 mm travel	1.0 μ m	Calibrated using ceramic gauge block according MICP/0002 Rev 2.7 (JIS B7502:2016) as a guide
Caliper	Up to 300 mm Up to 600 mm Up to 1000 mm	9 μ m 9 μ m 25 μ m	Calibrated using caliper checker according MICP/0001 Rev 2.7 (JIS B7507:2016) as a guide
	0.0005 inch to 12 inch	0.0005 inch	Calibrated using caliper checker according MICP/0010 Rev2.0 (Mitutoyo in house procedure)
Height Gauge	0.01 mm to 600 mm	11 μ m	Calibrated using caliper checker according MICP/0003 Rev2.3 (JIS B7517:1993) as a guide
Dial Gauge	0.001 mm to 10 mm	6.0 μ m	Calibrated using I checker according MICP/0004 Rev2.8 (JIS B7503:2017) as a guide
Dial Test Indicator	0.001 mm to 1 mm	0.6 μ m	Calibrated using I checker according MICP/0005 Rev2.7 (JIS B7533:2015) as a guide

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Digimatic Indicator	0.001 mm to 100 mm	1.0 μ m	Calibrated using I checker according MICP/0006 Rev1.1 (Mitutoyo In-house Procedure)
Holtest & Borematic	4 mm to 175 mm 175 mm to 200 mm	3.6 μ m 4.2 μ m	Calibrated using standard ring gauge according to MICP/0008 revision 1.0 (Mitutoyo in house procedure)
Setting Rod	25 mm to 200 mm	1.8 μ m	Calibrated according to Linear Height & Gauge Block according MICP/0011 Rev 2.0 (Mitutoyo In-house procedure)

SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF CALIBRATION :	DIMENSIONAL,HARDNESS

SCOPE OF CALIBRATION : DIMENSIONAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Contact Type Coordinate Measuring Machine	X Axis : 0 to 700 mm Y Axis : 0 to 700 mm Z Axis : 0 to 700 mm	0.73 + 2.7 L/1000 μ m	Calibrated according Method-1 MOCP/001 Rev2.0 to JIS B7440:1987 & JIS7440-2:1997 as a guide Calibrated according to Method 2 MOCP/011 Rev 2.1 to ISO 10360-2:2009, ISO 10360- 5:2010 & ISO 10360- 4:2000 as a guide

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	X Axis : Up to 1000 mm Y Axis : Up to 1000 mm Z Axis : Up to 1000 mm	0.72 + 2.94 L/1000 μ m	Calibrated according Method-1 MOCP/001 Rev2.0 to JIS B7440:1987 & JIS7440-2:1997 as a guide Calibrated according to Method 2 MOCP/011 Rev 2.1 to ISO 10360-2:2009, ISO 10360- 5:2010 & ISO 10360- 4:2000 as a guide
	X Axis : Up to 1200 mm Y Axis : Up to 2000 mm Z Axis : Up to 1000 mm	1.20 + 2.77 L/1000 μ m	Calibrated according to Method - 2 MOCP/011 Rev 2.1 to ISO 10360- 2:2009, ISO 10360-5:2010 & ISO 10360-4:2000 as a guide
	X Axis : Up to 2000 mm Y Axis : Up to 5000 mm Z Axis : Up to 1600 mm	0.63 + 0.89 L/1000 μ m	Calibrated according to Method - 3 MOCP/013 Rev 1.0 to ISO 10360-2:2009 & ISO 10360-5:2020 as a guide
Non-contact Type Coordinate Measuring Machine	X Axis : 0 to 800 mm Y Axis : 0 to 800 mm Z Axis : 0 to 200 mm	X,Y : 1.3 μ m Z : 0.7 μ m	Calibrated according MOCP/002 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 1/98)
Profile Projector	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 μ m	Calibrated according MOCP/003Rev2.1 (JIS B7184:1999) as a guide
Toolmaker Microscope	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 μ m	Calibrated according MOCP/004 Rev2.0 (JIS B7153:1995) as a guide
Contour Testing Machine	X Axis : 0 to 100 mm Y Axis : - Z Axis : -30 to +30 mm	X axis : 2.3 μ m Y Axis : - Z axis : 0.8 μ m	Calibrated according MOCP/006 Rev3.1 Manufacturer's (Mitutoyo) Specification (in house procedure 3/98)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	X Axis : 0 to 200 mm Y Axis : - Z Axis : -30 to +30 mm	X axis : 4.9 μ m Y Axis : - Z axis : 0.9 μ m	Calibrated according MOCP/006 Rev3.1 Manufacturer's (Mitutoyo) Specification (in house procedure 3/98)
Linear Height	X Axis : - Y Axis : - Z Axis : 0 to 600 mm	X axis : - Y Axis : - Z axis : 1.5 μ m	Calibrated according MOCP/008 Rev2.0 Manufacturer's (Mitutoyo) Specification (In house procedure 2/98)
Surface Roughness Testing	Z Axis: -300 μ m to +300 μ m	Ra : 0.12 μ m	Calibrated according MOCP/005 Rev 3.2 (JIS B0651:2001) as a guide
Roundness Measuring Machine	X Axis: -400 μ m to +400 μ m Y Axis: -400 μ m to +400 μ m Z Axis : -	Roundness: 0.1 μ m Cylindricity: 0.8 μ m	Calibrated according MOCP/007 Rev2.1 (JIS B7451:1997) as a guide

SCOPE OF CALIBRATION : HARDNESS

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Hardness Tester	Rockwell scale 10 to 50 HRB 60 to 80 HRB 85 to 100 HRB 10 to 30HRC 35 to 55 HRC 60 to 70 HRC 45 to 75 HRA	1.4 HRB 0.7 HRB 0.5 HRB 0.4 HRC 0.4 HRC 0.3 HRC 0.1 HRA	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
	Rockwell superficial scale 42 to 54 HR 30N 55 to 73 HR 30N 74 to 86 HR 30N 29 to 56 HR 30T 57 to 69 HR 30T 70 to 82 HR 30T	0.5 HR 30N 0.5 HR 30N 0.3 HR 30N 1.0 HR 30T 0.4 HR 30T 0.4 HR 30T	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide
	Vickers scale 200HV10 300HV10 500HV10 500HV1 700HV30	3 HV 4 HV 7 HV 11 HV 7 HV	Calibrated according to MOCP/010 ver1.1 (JIS B7725:2010) as a guide
	Micro Vickers 200HV0.1 500HV1 500HV0.1 300HV0.2 700HV0.2	8 HV 11 HV 28 HV 12 HV 36 HV	Calibrated according to MOCP/010 ver1.1 (JIS B7725:2010) as a guide
	Rockwell scale 10 to 50 HRB 60 to 80 HRB 85 to 100 HRB 10 to 30 HRC 35 to 55 HRC 60 to 70 HRC 45 to 75 HRA	1.4 HRB 0.7 HRB 0.5 HRB 0.4 HRC 0.4 HRC 0.3 HRC 0.1 HRA	Calibrated according to MOCP/012 Rev 1.0 (JIS B 7726:2017) as a guide
	Rockwell superficial scale 42 to 54 HR 30N 55 to 73 HR 30N 74 to 86 HR 30N 29 to 56 HR 30T 57 to 69 HR 30T 70 to 82 HR 30T	0.5 HR 30N 0.5 HR 30N 0.3 HR 30N 1.0 HR 30T 0.4 HR 30T 0.4 HR 30T	Calibrated according to MOCP/012 Rev 1.0 (JIS B 7726:2017) as a guide

BRANCH LOCATION	1. MITUTOYO (M) SDN. BHD., JOHOR BRANCH 70 (GROUND FLOOR), JALAN MOLEK 1/28 TAMAN MOLEK, MALAYSIA
FIELD(S) OF CALIBRATION :	DIMENSIONAL, HARDNESS

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SCOPE OF CALIBRATION: DIMENSIONAL

Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Surface Roughness Testing Machine	Z Axis : - 300 μm to +300 μm	Ra : 0.2 μm	Calibrated according to MOPC/005 Rev 3.2
Contact Type Coordinate Measuring Machine	X Axis : 0 to 700 mm Y Axis : 0 to 700 mm Z Axis : 0 to 700 mm	0.9I+ 2.44L/1000 μm	Calibrated according to Method-1 MOPC/001 Rev 2.0 to JIS B7440: 1987 & JIS 7440-2 :1997 as a guide Calibrated according to Method-2 MOCPP/011 Rev 2.1 to ISO 10360-2:2009, ISO 10360-5:2010 & ISO 10360-4: 2000 as a guide
	X Axis : Up to 1000 mm Y Axis : Up to 1000 mm Z Axis : Up to 1000 mm	0.92 + 2.5L/1000 μm	Calibrated according to Method-1 MOPC/001 Rev 2.0 to JIS B7440: 1987 & JIS 7440-2 :1997 as a guide Calibrated according to Method-2 MOCPP/011 Rev 2.1 to ISO 10360-2:2009, ISO 10360-5:2010 & ISO 10360-4: 2000 as a guide
	X Axis :Up to 1200 mm Y Axis :Up to 2000 mm Z Axis :Up to 1000 mm	1.14 + 2.07L/1000 μm	Calibrated according to Method-2 MOCPP/011 Rev 2.1 to ISO 10360-2:2009, ISO 10360-5:2010 & ISO 10360-4: 2000 as a guide
	X Axis : Up to 2000 mm Y Axis : Up to 5000 mm Z Axis : Up to 1600 mm	0.63 + 0.89 L/1000 μm	Calibrated according to Method - 3 MOCPP/013 Rev 1.0 to ISO 10360-2:2009 & ISO 10360-5:2020 as a guide

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Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Non-contact Type Coordinate Measuring Machine	X Axis : 0 to 800 mm Y Axis : 0 to 800 mm Z Axis : 0 to 200 mm	X,Y : 1.3 µm Z : 0.6 µm	Calibrated according to MOCP/002 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 1/98)
Profile Projector	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 µm	Calibrated according to MOCP/003 Rev2.1 (JIS B7184:1999) as a guide
Toolmaker Microscope	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 µm	Calibrated according to MOCP/004 Rev2.0 (JIS B7153:1995) as a guide
Contour Testing Machine	X Axis : 0 to 100 mm Y Axis : - Z Axis : -30 to +30 mm	X Axis : 2.4 µm Y Axis : - Z Axis : 0.8 µm	Calibrated according to MOCP/006 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 3/98)
	X Axis : 0 to 200 mm Y Axis : - Z Axis : -30 to +30 mm	X Axis : 4.9 µm Y Axis : - Z Axis : 0.9µm	Calibrated according to MOCP/006 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 3/98)
Linear Height	X Axis : - Y Axis : - Z Axis : 0 to 600 mm	X Axis : - Y Axis : - Z Axis : 0 to 600 mm	Calibrated according to MOCP/006 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 3/98)
Surface Roughness Testing Machine	Z Axis: -300 µm to +300 µm	RA : 0.2 µm	Calibrated according to MOCP/005 Rev 3.2 (JIS B0651 : 2001) as a guide
Roundness Measuring Machine	X Axis: -400 µm to +400 µm Y Axis: 400 µm to +400 µm Z Axis : -	Roundness : 0.1 µm Cylindricity: 0.9 µm	Calibrated according to MOCP/007 Rev 2.1 (JIS B7451:1997) as a guide

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SCOPE OF CALIBRATION: HARDNESS

Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Hardness Tester	Rockwell scale	1.2 HRB 0.6 HRB 0.5 HRB 0.6 HRC 0.6 HRC 0.4 HRC 0.1 HRA	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide
	Rockwell superficial scale	0.2 HR 30N 0.3 HR 30N 0.4 HR 30N 1.0 HR 30T 0.5 HR 30T 0.4 HR 30T	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide
	Vickers scale	7 HV 8 HV 10 HV 12 HV 7 HV 200 HV10 300 HV10 500 HV10 500 HV1 700 HV30	Calibrated according to MOCP/010 Rev 1.1 (JIS B7725:2010) as a guide
	Micro Vickers	7 HV 12 HV 30 HV 13 HV 35 HV 200 HV0.1 500 HV1 500 HV0.1 300 HV0.2 700 HV0.2	Calibrated according to MOCP/010 Rev 1.1 (JIS B7725:2010) as a guide

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BRANCH LOCATION	2. MITUTOYO (M) SDN. BHD., PENANG BRANCH 30, PERSIARAN MAHSURI 1/2 SUNWAY TUNAS, MALAYSIA
FIELD(S) OF CALIBRATION :	DIMENSIONAL, HARDNESS

SCOPE OF CALIBRATION: DIMENSIONAL

Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Surface Roughness Testing Machine	Z Axis : -300 µm to +300 µm	Ra: 0.13 µm	Calibrated according to MOCP/005 Rev 3.2 (JIS B0651:2001) as a guide
	Z Axis: -300 µm to +300 µm	Ra : 0.13 µm	Calibrated according to MOCP / 005 Rev 3.2 (JIS B0651: 2001) as a guide
Non-contact Type Coordinate Measuring Machine	X Axis : 0 to 800 mm Y Axis : 0 to 800 mm Z Axis : 0 to 200 mm	X,Y : 1.3 µm Z: 0.4 µm	Calibrated according to MOCP/002 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 1/98)
Profile Projector	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 µm	Calibrated according to MOCP/003 Rev2.1 (JIS B7184:1999) as a guide
Toolmaker Microscope	X Axis : 0 to 200 mm Y Axis : 0 to 200 mm Z Axis : -	2.0 µm	Calibrated according to MOCP/004 Rev2.0 (JIS B7153:1995) as a guide
Contour Testing Machine	X Axis : 0 to 100 mm Y Axis : - Z Axis : -30 to +30 mm	X Axis : 2.2 µm Y Axis : - Z Axis : 0.8 µm	Calibrated according to MOCP/006 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 3/98)
	X Axis : 0 to 200 mm Y Axis : - Z Axis : -30 to +30 mm	X Axis : 4.8 µm Y Axis : - Z Axis : 0.9 µm	Calibrated according to MOCP/006 Rev 3.1 Manufacturer's (Mitutoyo) Specification (in house procedures 3/98)

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Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Linear Height	X Axis : - Y Axis : - Z Axis : 0 to 600 mm	X Axis : - Y Axis : - Z Axis : 1.6 μm	Calibrated according to MOCP / 008 Rev 3.2 Manufacturer's (Mitutoyo) Specification (in house procedures 2/98)
Roundness Measuring Machine	X Axis: -400 μm to +400 μm Y Axis: 400 μm to +400 μm Z Axis : -	Roundness: 0.1 μm Cylindricity: 0.9 μm	Calibrated according to MOCP / 007 Rev2.1 (JIS B7451:1997) as a guide

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SCOPE OF CALIBRATION: HARDNESS

Items, Materials or Products Inspected	Type and Range of Inspection	Inspection Methods and Procedures	Remarks
Hardness Tester	Rockwell scale	1.3 HRB 0.5 HRB 0.4 HRB 0.4 HRC 0.5 HRC 0.4 HRC 0.2 HRA	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide
	Rockwell superficial scale	0.2 HR 30N 0.4 HR 30N 0.4 HR 30N 1.0 HR 30T 0.4 HR 30T 0.4 HR 30T	Calibrated according to MOCP/012 Rev 1.0 (JIS B7726:2017) as a guide
	Vickers scale	3 HV 6 HV 8 HV 12 HV 7 HV	Calibrated according to MOCP/010 Rev 1.1 (JIS B7725:2010) as a guide
	Micro Vickers	10 HV 12 HV 29 HV 11 HV 37 HV	Calibrated according to MOCP/010 Rev 1.1 (JIS B7725:2010) as a guide