

**National Institute of Metrology (Thailand)**

3/4-5 Moo 3, Klong 5, Klong Luang, Pathumthani, 12120, Thailand

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Price List

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
Calibration Fee						
Dimensional Metrology						
1	Iodine Stabilized He-Ne laser	633 nm	5.0×10^{-11}	36,000/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10101
2	Stabilized He-Ne laser	633 nm	1.0×10^{-9}	22,530/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10201
		500 - 1000 nm and 1560 nm	1.0×10^{-12}	45,000/piece	Beat measurement method with optical comb	08011 - 10202
		532 nm	4×10^{-8}	22,530/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10203
3	Laser Interferometer (Laser Head)	633 nm	0.1×10^{-6}	22,530/piece	Beat measurement method with Iodine stabilized He-Ne laser	08011 - 10301
4	Laser	350 - 1120 nm	1.0×10^{-7}	21,280/piece	Direct measurement method by wavelength meter	08011 - 10401
5	Wavelength meter	400 - 1000 nm	1.0×10^{-6}	21,600/piece	Direct measurement method by wavelength meter	08011 - 10501
		1000 - 2000 nm	1.0×10^{-6}	21,600/piece		08011 - 10502
		532 - 1064 nm	4.0×10^{-8}	25,000/piece	Wavelength meter calibration by using stabilized light source	08011 - 10503
6	Rectangular Gauge Block, Material : Steel, Ceramic, Tungsten Carbide, Chromium Carbide.	< 125 mm	Grade K or 00	2,000/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection without lapping. Both side wringing	08021 - 10101
		< 0.5 mm	Grade K or 00	3,000/piece		08021 - 10102



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Calibration Fee						
Dimensional Metrology						
7	Rectangular Gauge Block, Material : Steel, Ceramic, Tungsten				Optical Interferometry method,	
	- Variation in length	0.1 mm to 125 mm	Grade K or 00	2,200/piece	Variation in length measurement. Measuring faces inspection without lapping.	08021 - 10103
	- Flatness			2,200/piece	Flatness measurement	08021 - 10104
8	Rectangular Gauge Block, according to Euramet cg-2/v.02 (03/2011)	0.5 mm to 100 mm	Grade K or 00	2,500/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection without lapping. Both side wringing	08021 - 10201
9	Rectangular and Square Gauge Block,					
	- Deviation from central length	0.5 mm to 100 mm	Grade 0	750/piece	Comparison method, <i>Dlc</i> , Deviation from central length , Variation (<i>fo</i> , <i>fu</i>) Measuring faces inspection without lapping	08021 - 10301
		125 mm	0, 1, 2	3,030/piece		08021 - 10302
	- Difference in central length	0.01 - 25 mm	Grade K	1,905/pair	Direct Measurement by gauge block comparator, Difference in central length, variation in length and measuring face inspection without lapping.	08021 - 10303
10	Gauge Block Accessory	up to 100	As Specification	5,530/piece	Flatness and parallel measurement	08021 - 10401
11	Rectangular Gauge Block (inch), Material : Steel, Ceramic, Carbide.	0.005 inch to 4 inch	Grade 0	750/piece	Comparison method, <i>Dlc</i> , Deviation from central length , Variation (<i>fo</i> , <i>fu</i>) Measuring faces inspection without lapping	08021 - 10501



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Calibration Fee						
Dimensional Metrology						
12	Long Gauge Block (Metric Rectangular, Square)	125 mm to 500 mm	Grade 0, 1, 2	3,380/piece	Comparison Method, <i>Dlc</i> , Deviation from central length, Variation (<i>fo</i> , <i>fu</i>) Measuring faces inspection without lapping.	08021 - 10601
		600 mm to 1000 mm	Grade 0,1, 2	6,750/piece		08021 - 10603
13	Length Bar	5 mm to 600 mm	Grade 1	3,380/piece	Comparison Method, <i>Dlc</i> , Deviation from central length, Variation (<i>fo</i> , <i>fu</i>) Measuring faces inspection.	08021 - 10701
			Grade 2	3,380/piece		08021 - 10702
	Ball Bar / Nest Bar	Length up to 800 mm	1.2 μm	3,780	Comparative method with laser interferometer	08021 - 10703
14	Long Gauge Block Material : Steel	125 mm to 500 mm	Grade K or 00	10,000/piece	Optical Interferometry method, Deviation from central length Measuring faces inspection and lapping. Both side wringing	08021 - 10801
		600 mm to 1000 mm	Grade K or 00	15,000/piece		08021 - 10802
15	Thermal expansion coefficient of long gauge block	150 to 1000 mm	Grade K or 00	18,000	Laser interferometer	08021 - 10901
16	Square Gauge Block Material : Steel	Up to 100 mm	Grade K or 00	1,730/piece	Optical Interferometry method, Deviation from central length measuring faces inspection without lapping. Both side wringing	08021 - 11001
17	Autocollimator (Analog, Digital)	± 1000"	0.2"	25,000/piece	Calibration by standard autocollimator	08031 - 10101
		± 1200"	0.2"	25,000/piece		08031 - 10103
18	Rotary Encoder	0 - 360 degree	0.05"	25,000/piece	Calibration by self calibration rotaray encoder system	08031 - 10201



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Calibration Fee						
Dimensional Metrology						
19	Polygon	8 to 72 faces	0.2"	1,000/face	Calibration by one autocollimator	08031 - 10301
		8 to 72 faces	0.34"	750/face	Calibration by two autocollimator	08031 - 10305
		8 to 72 faces	0.1"	1,000/face	Calibration by self calibration rotray encoder system	08031 - 10309
20	Angle Gauge Block	up to 90°	0.21"	1,500/piece	Calibration by self calibration rotray encoder system	08031 - 10401
21	Indexing Table	0° to 360°	0.34"	1,000/position	Calibration by two autocollimator	08031 - 10501
				1,500/position		08031 - 10502
22	Electronic Inclinator	±1000" or 4,85 mm/m	0.3" or 1.7 μm/m	15,000/range	Calibration by autocollimator	08031 - 10901
	Electronic Level	-60° to 60°	0.006°	5,000	Calibration by rotary encorder	08030 - 10902
23	Cylindrical Square	Up to 600 mm	2 μm+ 6.0x10 ⁻⁶ l	5,000/side	Comparison method with Standard square	08031 - 11101
24	Standard Square	Up to 600 mm	0.4 μm+ 2.4x10 ⁻⁶ l	5,000/side		08031 - 11201
25	Square Master	Up to 600 mm	1 μm+ 7.2x10 ⁻⁶ l	5,000		08031 - 11301
26	Precision Square	Up to 600 mm	1 μm+ 7.2x10 ⁻⁶ l	5,000	Calibration by Master Square & Gauge Blocks	08031 - 11401
27	Straight Parallel	2 faces	0.6 μm + 6.0x10 ⁻⁶ l	5,000	Calibration straightness measuring machine	08031 - 11801
		4 faces		10,000		08031 - 11802



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Dimensional Metrology						
28	Small Angle Generator	±5,000 µm/m	2 µm/m	15,000	Calibration by autocollimator	08031 - 11901
29	Sine Bar	up to 45°	1"	5,000	Calibration by Gauge Blocks and Angle Gauge Blocks	08031 - 12001
30	Straightness Bar	up to 1000 mm	1.4 µm	5,000	Calibration straightness measuring machine	08031 - 12201
31	Straightness Measuring Machine	up to 7,500 mm	1.25x10 ⁻³ /	5,000	Cal. by standard autocollimator	08031 - 12202
32	Straightness Measuring Machine and Straightness Bar	Up to 1000 mm	0.5 µm	10,000	Cal. by Reversal Method	08031-12203
33	Plain Ring Gauge	0.1 to 300 mm	Q[0.37 µm, 1.3E-03.d]	2,410/piece		08041 - 10101
34	Plain Ring Gauge	0.5 mm to 100 mm	Q[0.25 µm, 1.8E-03.d]	4,410/piece	Measurement by using Setting Ring Gauge and Universal Length Measurement Machine	08041 - 10102
		100 to 300 mm	Q[0.25 µm, 1.8E-03.d]	4,410/piece	Measurement by using Setting Ring Gauge and Universal Length Measurement Machine	08041 - 10103
35	Go - No Go Plain Ring Gauge	0.1 to 300 mm	Q[0.37 µm, 1.3E-03.d]	2,410/side		08041 - 10201
36	Taper Plain Ring Gauge	1 to 300 mm	2.0 µm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 10301
37	Go - No Go Taper Plain Ring Gauge	1 to 300 mm	2.0 µm	2,410/side	Cal. by Universal length measuring Machine	08041 - 10401
38	Plain Plug Gauge	0.1 to 1 mm	0.236 µm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 10501
		1 to 100 mm	0.230 µm+1.43x10 ⁻⁶ d	2,410/piece		08041 - 10502
		100 to 300 mm	0.290 µm+1.81x10 ⁻⁶ d	2,410/piece		08041 - 10503

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Calibration Fee						
Dimensional Metrology						
39	Go-No Go Plain Plug Gauge	0.1 to 1 mm	0.236 μm	2,410/side	Cal. by Universal length measuring Machine	08041 - 10601
		1 to 100 mm	0.23 $\mu\text{m}+1.43\times 10^{-6}d$			08041 - 10602
		100 to 300 mm	0.290 $\mu\text{m}+1.81\times 10^{-6}d$			08041 - 10603
40	Pin Gauge	0.1 to 1 mm	0.236 μm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 10701
		1 to 100 mm	0.23 $\mu\text{m}+1.43\times 10^{-6}d$	2,410/piece		08041 - 10702
		100 to 300 mm	0.290 $\mu\text{m}+1.81\times 10^{-6}d$	2,410/piece		08041 - 10703
41	Master Ball	dia. Up to 300 mm	0.290 $\mu\text{m}+1.81\times 10^{-6}d$	2,410/piece	Cal. by Universal length measuring Machine	08041 - 10801
42	3-Wire Set	All sizes	0.23 $\mu\text{m}+1.43\times 10^{-6}d$	2,820/set	Cal. by Universal length measuring Machine	08041 - 10901
43	Plain Snap Gauge	All ranges	0.5 μm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 11001
44	Go - No Go Plain Snap Gauge	All ranges	0.5 μm	2,410/side	Cal. by Universal length measuring Machine	08041 - 11101
45	Thread Snap Gauge	All ranges	1.5 μm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 11201
46	Go - No Go Thread Snap Gauge	All ranges	1.5 μm	2,820/side	Cal. by Universal length measuring Machine	08041 - 11301
47	Flat Internal Limit Gauge	All ranges	0.5 μm	2,410/piece	Cal. by Universal length measuring Machine	08041 - 11401
48	Taper Plain Plug Gauge	1 to 300 mm	2.0 μm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 11501
49	Go - No Go Taper Plain Plug Gauge	1 to 300 mm	2.0 μm	2,820/side	Cal. by Universal length measuring Machine	08041 - 11601



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Calibration Fee						
Dimensional Metrology						
50	Parallel Thread Ring Gauge	from pitch 0.45 - 4 mm	1.5 µm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 11701
51	Go - No Go Parallel Thread Ring Gauge	from pitch 0.45 - 4 mm	1.5 µm	2,820/side	Cal. by Universal length measuring Machine	08041 - 11801
52	Taper Thread Ring Gauge	from pitch 0.45 - 4 mm	2 µm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 11901
53	Go - No Go Taper Thread Ring Gauge	from pitch 0.45 - 4 mm	2 µm	2,820/side	Cal. by Universal length measuring Machine	08041 - 12001
54	Parallel Thread Plug Gauge	from pitch 0.3 - 4 mm	1.5 µm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 12101
55	Go - No Go Parallel Thread Gauge	from pitch 0.3 - 4 mm	1.5 µm	2,820/side	Cal. by Universal length measuring Machine	08041 - 12201
56	Taper Thread Plug Gauge	from pitch 0.3 - 4 mm	2 µm	2,820/piece	Cal. by Universal length measuring Machine	08041 - 12301
57	Go - No Go Taper Thread Plug Gauge	from pitch 0.3 - 4 mm	2 µm	2,820/side	Cal. by Universal length measuring Machine	08041 - 12401
58	Pitch of thread gauge	0 to 120 mm	2.6 µm	2,030/piece	Cal. By Contour Measuring Machine	08041 - 12501
59	X-Axis Contour Measuring Machine	0 - 120 mm	1.6 µm	10,030/piece	Using Standard Scale	08041 - 12502
60	Included angle of thread gauge	0-90 degree	0.06 degree	2,030/piece	Cal. By Contour Measuring Machine	08041 - 12601
61	Contour specimen				Direct measurement by using Contour Measuring Machine	
	- x-axis (pitch)	up to 200 mm	2.3 µm	5,000/5 points + 1,000/point		08041 - 12701
	- z-axis (step, height)	up to 10 mm	1.6 µm	5,000/5 points + 1,000/point		08041 - 12702



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Calibration Fee						
Dimensional Metrology						
62	Height Master (analog/digital)	0 to 300 mm	0.3 μm + 3x10 ⁻⁶ l	13,500/piece	Cal. by Gauge block or Length Bar	08051 - 10101
		0 to 600 mm		22,500/piece		08051 - 10102
63	Check Master/ Step Gauge	0 to 300 mm	Q[0.20 μm, 7.7E-07L]	10,660/piece	Cal. By Laser Interferometer	08051 - 10201
		0 to 600 mm		13,160/piece		08051 - 10202
		0 to 1020 mm		15,660/piece		08051 - 10203
64	Gear standard Spur gear : Profile slope deviation	25 to 400 mm	1.0 to 3.0 μm	7,880/piece	Cal. by Coordinate Measuring Machine	08051 - 10301
65	Gear standard Spur gear : Helix slope deviation	up to 45°	1.0 to 2.0 μm	7,880/piece	Cal. by Coordinate Measuring Machine	08051 - 10401
66	Spur gear : Pitch	up to 400 mm	2.0 μm	7,880/piece	Cal. by Coordinate Measuring Machine	08051 - 10501
67	Bevel Gear : form deviation	up to 300 mm	2.0 μm	7,880/piece	Cal. by Coordinate Measuring Machine	08051 - 10601
68	Ball Plate	up to 1000 mm	Q[0.26 μm, 1.9E-03.L]	36,000/piece	Cal. by Coordinate Measuring Machine	08051 - 10701
69	Depth Micro-Checker	0 to 150 mm	0.3 μm + 2.7x10 ⁻⁶ l	9,000/piece	Cal. by Laser Interferometer	08051 - 10801
		0 to 300 mm		11,250/piece	Cal. by Laser Interferometer	08051 - 10802
70	Inside Micro-Checker	0 to 300 mm	Q[0.20 μm, 7.7E-07L]	10,660/piece	Cal. by Laser Interferometer	08051 - 10901
		0 to 600 mm		13,160/piece		08051 - 10902
		0 to 1020 mm		15,660/piece		08052 - 10903



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Calibration Fee						
Dimensional Metrology						
71	Caliper Checker/ Vernier Checker	0 to 300 mm	Q[0.20 μm, 7.7E-07L]	10,660/piece	Cal. by Laser Interferometer	08051 - 11001
		0 to 600 mm		13,160/piece		08051 - 11002
		0 to 1020 mm		15,660/piece		08052 - 11003
72	Focimeter/ Lensmeter	±25D	0.12D	7,530	Comparative method with laser interferometer	08061 - 10102
73	Optical Flat	max. dia. 60 mm	0.02 μm	2,500/piece	Cal. by Flatness Interferometer	08061 - 10201
		max. dia. 300 mm	0.05 μm	7,500/piece	Cal. by Flatness Interferometer	08061 - 10202
74	Transmission Flat/Reference Flat	max. dia. 300 mm	25 nm	11,500/piece	Absolute calibration by 3-flat test method	08061 - 10203
75	Glass Hemisphere Roundness specimen (High precision)	dia. Up to 355 mm	8+ 8R nm	11,500/piece	Error seperation technique by multistep method Soft file of measurement result charge +2500 baht/file	08061 - 10301
76	Roundness of specimen/workpiece	dia. Up to 355 mm	11+ 11R nm	7,530/piece	Soft file of measurement result charge +2500 baht/file	08061 - 10401
77	Cylinder/Cylindrical standard	Height up to 500 mm Diameter up to 300 mm				
	- Cylindricity		0.09 μm + 1.04 x 10 ⁻⁴ H	7,530	Direct measurement with roundness measuring machine	08061-10402
	- Straightness		Q[42,0.91.L] nm where L being travel length in mm	7,530	Direct measurement by roundness measuring instrument based on reversal method	08061 - 10403
	- Parallelism		Q[0.16, 1.2E-3.H] um where H being measured height of the cylinder in mm	7,530	Direct measurement by roundness measuring instrument	08061 - 10404



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Calibration Fee						
Dimensional Metrology						
	- Squareness		Q[0.10, 1.2E-3.H] um where H being measured height of the cylinder in mm	7,530	Direct measurement by roundness measuring instrument	08061 - 10405
78	Roughness Specimen (Type A), Step Height	25 nm to 32 μm	7+12Z _m nm	5,030/step	Z _m being the measured value by contract measurement	08061 - 10501
		10 nm to 10 μm	2.4+5.4Z _m nm	6,280/step	Z _m being the measured value by non- contract measurement	08061 - 10502
79	Roughness Specimen (Type C or Type D), Roughness Specimen	Amplitude parameter: 25 nm to 32 μm	U(R _a)=9.6+11.9Z _m nm	7,530/range	Z _m being the measured value	08061 - 10601
			U(R _z)=17.7+16.7Z _m nm			
		Spacing parameter: 20 mm	U(R _{sm}) = 0.6 μm			
80	Roughness specimen (Areal parameter)	0.01 μm to 3 μm	U(S _a)=30+7.3Z _m nm	7,530/range	Z _m being the measured value	08061 - 10602
			U(S _q)=31+7.3Z _m nm			
			U(S _z) = Q[140, 7.3.Z _m] nm			
81	Step height / depth standard	1 nm to 100 nm	0.43 nm	11,500/piece	Measurement by Metrological Nanomeasuring and Nanopositioning Machine	08061 - 10901
82	Pitch standard	0.1 μm to 100 μm	3.70 nm	11,500/piece	Measurement by Metrological Nanomeasuring and Nanopositioning Machine	08061 - 11001
83	Radius of curvature	up to 50 mm	Q[0.57 μm, 1.6E-02.L]	2,530	Cal. by Fizeau interferometer	08061 - 11101
84	Sphericity and form error of spherical part	400 mm	≥ 23 nm	7,530/piece	Cal. by Fizeau interferometer	08061-11102



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Dimensional Metrology						
85	Lens	Concave radius: up to 600 mm Convex radius: up to 600 mm	$(7.87+0.47 \cdot F) \mu\text{m}$	3,780/piece	Reflective Index (n) of a lens is required	
	- Focal length					
	- Ophthalmic power					
	- Prism Diopter	Up to 50Δ	15Δ	5,000/piece		
86	Riser Block	0 to 150 mm	$0.3 \mu\text{m} + 3 \times 10^{-6} l$	5,660/piece	Height and Parallelism	08071 - 10101
		0 to 300 mm				08071 - 10102
		0 to 600 mm				08071 - 10103
87	Vernier Caliper	0 mm to 1000 mm	$0.01 \text{ mm} + 1.0 \times 10^{-6} l$	3,380/piece	Cal. by Gauge Block or Length Bar	08071 - 10201
		0 mm to 1500 mm		4,500/piece		08071 - 10202
		0 mm to 2000 mm		6,750/piece		08071 - 10203
88	Height Measuring Station	0 mm to 300 mm	$0.3 \mu\text{m} + 3.0 \times 10^{-6} l$	11,250/piece	Cal. by Gauge Block or Length Bar	08071 - 10301
		0 mm to 600 mm		12,600/piece		08071 - 10302
89	Height Gauge	0 mm to 1000 mm	$6 \mu\text{m} + 1.0 \times 10^{-6} l$	9,000/piece	Cal. by Gauge Block or Length Bar	08071 - 10401

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Calibration Fee						
Dimensional Metrology						
90	External Micrometer	300 mm to 500 mm	$1 \mu\text{m} + 1.0 \times 10^{-6} l$	2,820/piece	Cal. by Gauge Block	08071 - 10501
		> 500 mm to 1000 mm		3,380/piece		08071 - 10502
		> 1000 mm to 2000 mm		4,500/piece		08071 - 10503
		0 mm to 25 mm	$0.08 \mu\text{m} + 3.0 \times 10^{-6} l$	3,380/piece	- Resolution : 0.1 μm	08071 - 10504
91	Setting Zero Rod	Up to 1000 mm	$0.2 \mu\text{m} + 2.3 \times 10^{-6} l$	2,030/piece	Cal. by Gauge Block	08071 - 10601
92	Micrometer Head	0 mm to 25 mm	$0.6 \mu\text{m} + 2.3 \times 10^{-6} l$	3,380/piece	Cal. by Universal Length Measuring Machine or standard linear gauge	08071 - 10701
		0 mm to 50 mm		4,500/piece		08071 - 10702
93	Calibration Tester	0 mm to 1 mm	$0.25 \mu\text{m} + 2.3 \times 10^{-6} l$	7,880/piece	Cal. by Standard linear gauge	08071 - 10801
		0 mm to 5 mm		7,880/piece		08071 - 10802
		0 mm to 50 mm	$0.2 \mu\text{m} + 2.3 \times 10^{-6} l$	9,000/piece		08071 - 10803
		0 mm to 100 mm		11,250/piece		08071 - 10804



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Price List

Item No.	Description	Range	Accuracy / Uncertainty	Price (THB)	Remark	Code
Calibration Fee						
Dimensional Metrology						
94	Dial Gauge Tester	0 mm to 25 mm	$0.6 \mu\text{m} + 2.3 \times 10^{-6} l$	6,750/piece	Cal. by Standard linear gauge	08071 - 10901
	- Scale		$0.3 \mu\text{m} + 2.3 \times 10^{-6} l$			
	- Digital	0 mm to 50 mm	$0.3 \mu\text{m} + 2.3 \times 10^{-6} l$	8,780/piece		08071 - 10902
		0 mm to 100 mm	$0.3 \mu\text{m} + 2.3 \times 10^{-6} l$	10,030/piece		08071 - 10903
95	Torsional Recovery	0 mm to 40 mm	$0.01 \mu\text{m} + 7.0 \times 10^{-6} l$	2,820/piece	Cal. by Profile projector	08071 - 11001
	Electronic Comparator (Mu-Checker / Millitron) (Include: Probe and display unit) Analog M-Checker	5 μm	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece	Request stand and Jig fixture	08071 - 11201
		15 μm		4,500/piece		08071 - 11202
		50 μm	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece		08071 - 11203
		150 μm		4,500/piece		08071 - 11204
		500 μm	$0.06 \mu\text{m} + 7.0 \times 10^{-6} l$	4,500/piece		08071 - 11205
1500 μm		4,500/piece		08071 - 11206		
96	Calibration Gauge for Seam Metal	0 to 10 mm	$0.3 \mu\text{m} + 0.42 \times 10^{-6} l$	2,530/piece	Cal. By NIMT Line scale interferometer /QV	08071 - 11301
97	Laser Hologage	0 to 10 mm	$0.04 \mu\text{m} + 2.3 \times 10^{-6} l$	11,250/piece	Cal. by Gauge Block	08071 - 11401
		0 to 50 mm		15,750/piece		08071 - 11402

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Calibration Fee						
Dimensional Metrology						
98	Radius Gauge	All sizes	$1 \mu\text{m} + 0.53 \times 10^{-6} R$	1,910/First(450/Next piece)	Cal. by QV	08071 - 11501
99	Pitch Gauge	All sizes	$1 \mu\text{m}$	2,250/piece	Cal. by QV	08071 - 11601
100	Feeler Gauge	All sizes	$0.8 \mu\text{m}$	1,910/piece	Cal. by ULM/standard linear gauge	08071 - 11701
101	Thickness of speciment	up to 10 mm	$0.08 \mu\text{m} + 0.45 \times 10^{-6} l$	750/point	Cal. by standard linear gauge	08071 - 11801
		up to 100 mm	$0.34 \text{mm} + 0.41 \times 10^{-3} l$	2,250/First(450/Next piece)	Cal. by ULM	08071 - 11802
102	Laser Scan Micrometer (Display Unit, Measuring Unit)	Up to 100 mm	$0.5 \mu\text{m}$	11,250/piece	Cal. by Standard plug gauge	08071 - 11901
103	Holtest / 3- point internal micrometer	Up to 100 mm	$1.5 \mu\text{m} + 1.5 \times 10^{-6} d$	2,250/piece	Cal. by Ring gauge	08071 - 12001
104	LSM Calibration Tool	Up to 5 mm	$50.0 \mu\text{m} + 2.5 \times 10^{-6} l$	2,250/piece		08071 - 12101
105	Arm Calibrator	All ranges	$0.01 \text{mm} + 9.5 \times 10^{-6} l$	2,820/piece	Cal. by CMM	08071 - 12201
106	Surfacetest Step Gauge	All ranges	$0.05 \mu\text{m} + 2.3 \times 10^{-6} l$	1,130/piece	Cal. by CMM/standard linear gauge	08071 - 12301
107	Magnification Checker	Full scale	$0.7 \mu\text{m} + 2.3 \times 10^{-6} l$	5,630/piece	Cal. by standard linear gauge	08071 - 12401
108	Orefice Plate	Up to 1000 mm	$0.02 \mu\text{m} + 2.3 \times 10^{-6} l$	25,200/piece	Cal. by Profile projector	08071 - 12501



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Calibration Fee						
Dimensional Metrology						
109	Calibration block	V1	0.01 mm	4,500/piece	Cal. by QV	08071 - 12601
		V2	0.01 mm	3,380/piece		08071 - 12602
		LSW	0.01 mm	3,380/piece		08071 - 12603
110	Objective Micrometer/Stage Micrometer/Standard Scale of Brinell Microscope	0 - 1 mm	$0.5 \mu\text{m} + 1.6 \times 10^{-6} l$	2,820 first (1,250 next function)	Cal. by NIMT Line Scale interferometer/QV	08071 - 12701
		0 - 10 mm				08071 - 12702
111	Test Sieve	0.020 - 125 mm	0.012 - 0.025 mm	5,000/piece	Cal. By 3D Measuring Machine, QV	08071 - 12901
112	Standard Glass Scale	0 mm to 300 mm	Q[41, 0.1.] nm	15,750/piece	Cal. by Line Scale Interferometer	08081 - 10103
		0 mm to 500 mm		18,000/piece		08081 - 10104
		500 mm to 1000 mm	Q[100, 0.1.] μm	22,500/piece		08081 - 10105
113	Standard Metal Scale	0 mm to 1000 mm	$8 \mu\text{m} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. By NIMT Line scale interferometer	08081 - 10201
114	Standard Glass Scale/ Working Standard Scale	0 mm to 200 mm	$0.5 \mu\text{m} + 1.6 \times 10^{-6} l$	3,380/piece	Cal. By NIMT Line scale interferometer	08081 - 10301
		0 mm to 400 mm	$0.5 \mu\text{m} + 1.6 \times 10^{-6} l$	5,630/piece		08081 - 10302
		0 mm to 600 mm	$1.0 \mu\text{m} + 2.3 \times 10^{-6} l$	6,750/piece	Cal. By QV	08081 - 10303
		0 mm to 1000 mm	$1.0 \mu\text{m} + 2.3 \times 10^{-6} l$	7,880/piece		08081 - 10304



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Calibration Fee							
Dimensional Metrology							
		0 mm to 200 mm	Q[100, 0.1.] μm	6,650/piece	Cal. by Line Scale Interferometer	08081 - 10305	
		200 mm to 500 mm		10,140/piece		08081 - 10306	
115	Reading Scale	0 mm to 400 mm	$1.0 \mu\text{m} + 1.6 \times 10^{-6} l$	3,380/piece	Cal. By NIMT Line scale interferometer	08081 - 10401	
		0 mm to 600 mm		5070/piece	Cal. by QV	08081 - 10402	
116	Calibration Grid	100-0-100 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. by QV or Laser Interferometer	08081 - 10501	
		200-0-200 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	5,400/piece		08082 - 10502	
		300-0-300 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	6,300/piece		Cal. by QV	08083 - 10503
		> 300 mm	$2.0 \mu\text{m} + 2.3 \times 10^{-6} l$	10,800/piece			08084 - 10504
117	Reticle of Scale Lupe	0 to 20 mm	$1.0 \text{ mm} + 1.6 \times 10^{-6} l$	2,250 First (1800/Next function)	Cal. By NIMT Line scale interferometer	08081 - 10601	
118	Digimatic Scale Unit	Up to 1000 mm	$0.01 \text{ mm} + 2.3 \times 10^{-6} l$	4,500/piece	Cal. by laser interferometer/standard glass scale	08081 - 10701	
119	Linear Scale	Up to 1000 mm	$7 \mu\text{m}$	5,630/piece	Cal. by laser interferometer/standard glass scale	08081 - 10801	
120	Measuring Microscope	Up to 1000 mm	$10 \mu\text{m}$	6,750/piece	Cal. by laser interferometer/standard glass scale	08081 - 10901	
On-site Calibration							
121	Gauge Block Comparator	Up to 100 mm	$0.032 \mu\text{m}$	25,000/piece	Euramet cg-2/v.02 (03/2011) 11 Gauge Blocks 0.5 to 100 mm	08021 - 30801	



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Calibration Fee						
Dimensional Metrology						
122	Universal Length Measuring Machine (ULM)	Up to 1000 mm	$0.05 \mu\text{m} + 1.2 \times 10^{-6}l$	30,000/piece (10 points) + 1,000/point	Comparison with gauge block	08021 - 30901
		Up to 1000 mm	$0.05 \mu\text{m} + 1.2 \times 10^{-6}l$	40,000/piece (10 points) + 1,000/point	Comparison with Laser Interferometer	08021 - 30902
123	Profile projector	0 to 150 mm		12,530/piece	Measure in linear scale, magnification of lens, square and 7 points in angle (5°, 15°, 30°, 45°, 60°, 75°, 90°)	08071 - 30601
124	Linear Scale	0 mm to 1000 mm	$7 \mu\text{m} + 2.3 \times 10^{-6}l$	5,630/piece	Cal. by laser interferometer/standard glass scale	08081 - 30801
		0 mm to 2000 mm		6,750/piece		08081 - 30802
125	3D non-contact	x- and y-axis up to 500 mm z-axis up to 100 mm	$0.15 \mu\text{m} + (0.16 \times 10^{-6}l)$ for x- and y-axis $1.2 \mu\text{m} + (4.5 \times 10^{-6}l)$ for z-axis	14,500/piece	Compare with standard glass scale and gauge block	08081 - 30803
PT and Inter-laboratory comparison only						
127	Optical Parallel	max. dia. 60 mm	$0.02 \mu\text{m} (F)$	1,600/piece	F being Flatness	08061 - 10101
			$0.06 \mu\text{m} + 6.48 \times 10^{-6}l \mu\text{m}$		P being Parallelism	
			$0.23 \mu\text{m} + 6.48 \times 10^{-6}l \mu\text{m}$		T being Thickness	
128	Precision Level	Full range	$5 \mu\text{m}/\text{m}$	5,630/piece	Calibration by autocollimator	08031 - 11001
Instrument/measuring system/specimen/TRM						
129	Flatness Tester		$\geq 40 \text{ nm}$	200,000/ea.	The flatness tester system, reference flat, software, including training	08061 - 10701
130	Dial gauge tester Assembly and inspection	0-50 mm	-	10,800/ea.		08071 - 12801

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Calibration Fee						
Dimensional Metrology						
131	Monodisperse Polystyrene Particle	Diameter 150 nm	10 mL	5,000/ea.	TRM-M-9001	08091 - 10101
		Diameter 100 nm	10 mL	5,000/ea.	TRM-M-9002	08091 - 10102
		Diameter 1.5 um	10 mL	5,000/ea.	TRM-M-9003	08091 - 10103