



**South China National Centre of Metrology**

華南國家計量測試中心

**ADDRESS** : No. 30, Songbaidong St., Guangyuanzhong Road, Guangzhou, China  
地址 中國廣州市廣園中路松柏東街30號

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**CLIENTELE** : Public  
服務對象 公眾



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**ACCREDITED TEST CATEGORY** : Calibration Services 校正服務  
**認可測試類別**



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Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Length and related measurement		
- Angle		
- Angle gauge	Verification for angle in accordance with JJG 70-2004 over the following range:	
- Grade 0	0° to 360°	0.9 second of arc
- Grade 1 and 2	0° to 360°	1.4 seconds of arc
- Angular polygon	Verification for angle in accordance with JJG 283-2007 over the following range:	
	0° to 360°	0.4 second of arc
- General bevel protractor	Verification for angle in accordance with JJF 1959-2021 over the following range:	
- Resolution: 2'	0° to 320°	1 minute of arc
- Resolution: 5'	0° to 360°	3 minutes of arc
- Level	Verification for angle to horizontal level using parallel light tube in accordance with JJG 425-2003 over the following range:	
- Bubble level		
- Grade DS1	-30' to +30'	2.0 seconds of arc
- Grade DS3	-30' to +30'	2.7 seconds of arc
- Automatic level		
- Grade DSZ1	-30' to +30'	2.0 seconds of arc
- Grade DSZ3	-30' to +30'	2.4 seconds of arc

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Length and related measurement		
- Angle		
- Level	Verification for angle using small angle measurement machine in accordance with JJG 103-2005 over the following range:	
- Coincidence level	-5 mm/m to +5 mm/m	0.002 mm/m
- Electronic level		
- Resolution: 0.001 mm/m	-5 mm/m to +5 mm/m	0.002 mm/m
- Resolution: 0.01 mm/m	-5 mm/m to +5 mm/m	0.02 mm/m
- Level	Verification for angle using level tester in accordance with JJF 1084-2002 over the following range:	
- Frame level		
- Resolution: 0.02 mm/m, 0.05 mm/m and 0.10 mm/m	0.02 mm/m to 1.5 mm/m	4 %
- Strip level		
- Resolution: 0.02 mm/m, 0.05 mm/m and 0.10 mm/m	0.02 mm/m to 1.5 mm/m	4 %
- Level ruler	Verification for angle in accordance with JJF 1085-2002 over the following range:	
- Resolution: 5 mm/m and 10 mm/m	0.5 mm/m to 10 mm/m	8 %

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Length and related measurement		
- Angle		
- Optical theodolite	Verification for angle using parallel light in accordance with JJG 414-2011 over the following range:	
- Class DJ <sub>1</sub>	0° to 360°	0.33 second of arc
- Class DJ <sub>2</sub>	0° to 360°	0.54 second of arc
- Class DJ <sub>6</sub>	0° to 360°	2.0 seconds of arc
- Precise angle dividing table	Verification for angle in accordance with JJG 472-2007 over the following range:	
- Class 0	0° to 360°	0.09 second of arc
- Class 1	0° to 360°	0.11 second of arc
- Class 2	0° to 360°	0.13 second of arc
- Square (Cylindrical, rectangular, triangular, knife cast-iron, wide-stand, straight square)	Verification for squareness in accordance with JJG 7-2004 over the following range:	
- Length: 63 mm to below 300 mm	0 to 300 µm	1.8 µm
- Length: 300 mm to below 500 mm	0 to 300 µm	2.4 µm
- Length: 500 mm to 1000 mm	0 to 300 µm	5.0 µm

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Length and related measurement		
- Form		
- Optical flat	Verification for flatness in accordance with JJG 28-2019 over the following range:	
- Diameter: 30 mm	0 to 0.2 µm	0.008 µm
- Diameter: 45 mm	0 to 0.2 µm	0.008 µm
- Diameter: 60 mm	0 to 0.2 µm	0.009 µm
- Diameter: 80 mm	0 to 0.2 µm	0.014 µm
- Diameter: 100 mm	0 to 0.2 µm	0.017 µm
- Optical parallel	Verification for the following parameters in accordance with JJG 28-2019 over the following range:	
- Thickness: 15.00 mm to 91.00 mm	- Flatness 0 to 0.2 µm	0.02 µm
	- Parallelism 0 to 2 µm	0.2 µm
- Roughness comparison sample	Verification for roughness in accordance with JJF 1099-2018 at the following values:	
	0.1 µm	6.8 % of reading
	0.2 µm	5.8 % of reading
	0.4 µm	4.9 % of reading
	0.8 µm	4.2 % of reading
	1.6 µm	4.2 % of reading
	3.2 µm	4.2 % of reading
	6.3 µm	4.2 % of reading

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Length and related measurement		
- Form		
- Straight edge	Verification for straightness in accordance with JJF 1097-2021 over the following range:	
- Length: 800 mm	0 to 1 mm	0.6 µm
- Length: 1000 mm	0 to 1 mm	0.6 µm
- Length: 2000 mm	0 to 1 mm	1.0 µm
- Length: 3000 mm	0 to 1 mm	1.3 µm
- Surface plate and surface table	On-site verification for flatness in accordance with JJG 117-2013 over the following range:	
- Dimensions: 300 mm x 300 mm, 400 mm x 300 mm, 400 mm x 400 mm	0 to 70 µm	0.6 µm
- Dimensions: 500 mm x 500 mm, 600 mm x 450 mm, 630 mm x 400 mm	0 to 90 µm	0.9 µm
- Dimensions: 800 mm x 500 mm, 800 mm x 600 mm	0 to 100 µm	1.2 µm
- Dimensions: 1000 mm x 630 mm, 1000 mm x 750 mm, 1000 mm x 800 mm	0 to 120 µm	1.5 µm
- Dimensions: 1500 mm x 1000 mm	0 to 150 µm	1.8 µm
- Dimensions: 3000 mm x 2000 mm	0 to 200 µm	6.0 µm

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Length and related measurement  - Form  - Toolmaker's straight edge  - Length: 75 mm, 125 mm, 175 mm  - Length: 225 mm, 300 mm	Verification for straightness in accordance with JJG 63-2007 over the following range:  0 to 5 µm  0 to 5 µm	    0.3 µm  0.6 µm

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Length and related measurement		
- Length		
- Caliper	Verification for length in accordance with JJG 30-2012 over the following ranges:	
- Dial type		
- Scale division: 0.01 mm	0.5 mm to 70 mm	0.004 mm
	Above 70 mm to 150 mm	0.004 mm
	Above 150 mm to 200 mm	0.005 mm
	Above 200 mm to 300 mm	0.008 mm
- Scale division: 0.02 mm	0.5 mm to 70 mm	0.004 mm
	Above 70 mm to 150 mm	0.005 mm
	Above 150 mm to 200 mm	0.006 mm
	Above 200 mm to 300 mm	0.009 mm
- Scale division: 0.05 mm	0.5 mm to 70 mm	0.006 mm
	Above 70 mm to 150 mm	0.007 mm
	Above 150 mm to 200 mm	0.008 mm
	Above 200 mm to 300 mm	0.010 mm
- Digital type		
- Resolution: 0.01 mm	0.5 mm to 450 mm	0.01 mm
	Above 450 mm to 600 mm	0.02 mm
	Above 600 mm to 1500 mm	0.03 mm
	Above 1500 mm to 2000 mm	0.04 mm
- Vernier type		
- Scale division: 0.02 mm	0.5 mm to 300 mm	0.01 mm
	Above 300 mm to 600 mm	0.02 mm
	Above 600 mm to 1500 mm	0.03 mm
	Above 1500 mm to 2000 mm	0.04 mm
- Scale division: 0.05 mm	0.5 mm to 500 mm	0.02 mm
	Above 500 mm to 1000 mm	0.03 mm
	Above 1000 mm to 1500 mm	0.04 mm
	Above 1500 mm to 2000 mm	0.05 mm

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Length and related measurement  - Length  - Dial gauge  - Scale division or resolution: 0.001 mm  - Scale division or resolution: 0.01 mm	Verification for length in accordance with JJG 34-2022 over the following range:  0.001 mm to 1 mm Above 1 mm to 2 mm Above 2 mm to 5 mm  0.01 mm to 10 mm Above 10 mm to 30 mm Above 30 mm to 50 mm	    1.2 µm 1.8 µm 3.5 µm  5 µm 7 µm 10 µm

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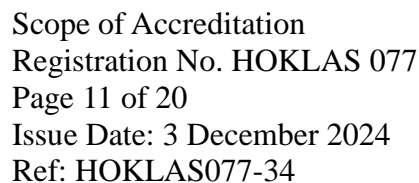
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Length and related measurement  - Length  - Digital indicator  - Resolution: 0.001 mm  - Resolution: 0.01 mm  - Feeler gauge	Verification for length in accordance with in-house method FFC9907-2009 over the following ranges:  0.5 mm to 50 mm Above 50 mm to 100 mm  0.5 mm to 100 mm  Verification for length in accordance with JJG 62-2017 over the following range:  0.02 mm to 1.00 mm	    1 µm 2 µm  10 µm     1 µm



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Length and related measurement  - Length  - Height caliper  - Dial height caliper - Scale division: 0.01 mm    - Digital height caliper - Resolution: 0.01 mm    - Vernier height caliper - Scale division: 0.02 mm    - Scale division: 0.05 mm	Verification for height in accordance with JJG 31-2011 over the following ranges:  10 mm to 300 mm Above 300 mm to 500 mm Above 500 mm to 600 mm Above 600 mm to 1000 mm Above 1000 mm to 1500 mm Above 1500 mm to 2000 mm   10 mm to 300 mm Above 300 mm to 600 mm Above 600 mm to 1000 mm Above 1000 mm to 1500 mm Above 1500 mm to 2000 mm   10 mm to 300 mm Above 300 mm to 600 mm Above 600 mm to 1000 mm Above 1000 mm to 1500 mm Above 1500 mm to 2000 mm   10 mm to 600 mm Above 600 mm to 1000 mm Above 1000 mm to 1500 mm Above 1500 mm to 2000 mm	    0.009 mm 0.013 mm 0.016 mm 0.025 mm 0.043 mm 0.063 mm     0.01 mm 0.02 mm 0.03 mm 0.05 mm 0.07 mm     0.01 mm 0.02 mm 0.03 mm 0.05 mm 0.07 mm     0.03 mm 0.04 mm 0.05 mm 0.07 mm

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Length and related measurement  - Length  - Inductive micrometer  - Pointer type - Scale division: 0.1 µm  - Scale division: 1 µm  - Scale division: 10 µm  - Digital type - Resolution: 0.01 µm  - Resolution: 0.1 µm  - Resolution: 1 µm  - Level rod	Calibration for length in accordance with JJF 1331-2011 over the following range:  -3 µm to 3 µm  -30 µm to 30 µm  -300 µm to 300 µm  -10 µm to 10 µm  -100 µm to 100 µm  -500 µm to 500 µm  Verification for length in accordance with JJG 8-1991 over the following ranges:  0.01 m to 3 m Above 3 m to 5 m	    0.03 µm  0.23 µm  2 µm  0.02 µm  0.3 µm  2 µm    0.6 mm 0.9 mm

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Length and related measurement  - Length  - Micrometer  - External digital type	Verification for length in accordance with JJG 21-2008 over the following range:  5.12 mm to 25 mm Above 25 mm to 50 mm Above 50 mm to 75 mm Above 75 mm to 100 mm Above 100 mm to 125 mm Above 125 mm to 150 mm Above 150 mm to 175 mm Above 175 mm to 225 mm Above 225 mm to 250 mm Above 250 mm to 300 mm Above 300 mm to 325 mm Above 325 mm to 350 mm Above 350 mm to 375 mm Above 375 mm to 400 mm Above 400 mm to 425 mm Above 425 mm to 475 mm Above 475 mm to 500 mm	0.7 µm 0.8 µm 0.9 µm 1.0 µm 0.9 µm 1.0 µm 1.1 µm 1.2 µm 1.3 µm 1.4 µm 1.5 µm 1.6 µm 1.7 µm 1.8 µm 1.9 µm 2.0 µm 2.1 µm

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Length and related measurement  - Length  - Micrometer  - External vernier type	Verification for length in accordance with JJG 21-2008 over the following range:  5.12 mm to 25 mm Above 25 mm to 50 mm Above 50 mm to 75 mm Above 75 mm to 100 mm Above 100 mm to 125 mm Above 125 mm to 150 mm Above 150 mm to 175 mm Above 175 mm to 200 mm Above 200 mm to 225 mm Above 225 mm to 250 mm Above 250 mm to 275 mm Above 275 mm to 300 mm Above 300 mm to 325 mm Above 325 mm to 350 mm Above 350 mm to 375 mm Above 375 mm to 400 mm Above 400 mm to 425 mm Above 425 mm to 450 mm Above 450 mm to 475 mm Above 475 mm to 500 mm	0.7 µm 0.8 µm 0.9 µm 1.1 µm 1.2 µm 1.4 µm 1.7 µm 1.9 µm 2.4 µm 2.6 µm 2.8 µm 3.1 µm 3.3 µm 3.5 µm 3.8 µm 4.0 µm 4.3 µm 4.5 µm 4.7 µm 5.0 µm
- Internal type	Verification for length in accordance with JJG 22-2014 at the following values:  100 mm 200 mm 300 mm 600 mm 1000 mm 1200 mm 1500 mm 2000 mm	2 µm 2 µm 2 µm 4 µm 5 µm 6 µm 7 µm 10 µm

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Length and related measurement		
- Length		
- Numerically controlled machine tool	On-site calibration for length in accordance with JJF 1251-2010 over the following range:  0.01 mm to 10 m	(0.8 + 5.9L) μm where L is the length in m
- Projector	On-site calibration for length in accordance with JJF 1093-2015 over the following range:  0.01 mm to 200 mm	(1.2 + 2.0 x 10 <sup>-6</sup> L) μm where L is the length in mm
- Steel rule	Verification for length in accordance with JJG 1-1999 over the following range:  0.5 mm to 150 mm Above 150 mm to 1000 mm Above 1000 mm to 2000 mm	0.05 mm 0.05 mm 0.07 mm
- Steel tape	Verification for length in accordance with JJG 4-2015 over the following range:  0.001 m to 200 m	(0.15 + 0.015L) mm where L is the length in m

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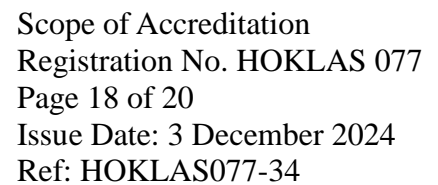
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Length and related measurement  - Length  - Thickness gauge  - Coating thickness gauge  - Eddy current type  - Magnetic resistance type  - Ultrasonic type  - Resolution: 0.01 mm  - Resolution: 0.1 mm  - Film thickness gauge  - Dial type  - Scale division: 0.001 mm  - Scale division: 0.01 mm  - Scale division: 0.1 mm	Verification for thickness in accordance with JJG 818-2018 over the following range:  12 µm to 982 µm  Verification for thickness in accordance with JJG 818-2018 over the following range:  12 µm to 982 µm  Calibration for thickness in accordance with JJF 1126-2004 over the following range:  0.5 mm to 200 mm  0.5 mm to 200 mm  Calibration for thickness in accordance with JJF 1255-2010 over the following range:  0.1 mm to 1 mm  0.1 mm to 10 mm  0.1 mm to 30 mm	(0.3 + 0.004H) µm where H is the thickness in mm  (0.3 + 0.004H) µm where H is the thickness in mm  0.02 mm  0.1 mm    1.0 µm  2 µm  0.01 mm

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Temperature measurement  - Digital thermometer   - Resolution: 1 °C   - Resolution: 0.1 °C   - Resolution: 0.01 °C	Calibration for temperature in accordance with in-house method FFR 9903-2014 over the following ranges:  -40 °C to 5 °C Above 5 °C to 95 °C Above 95 °C to 250 °C  -40 °C to 5 °C Above 5 °C to 95 °C Above 95 °C to 250 °C  -40 °C to 5 °C Above 5 °C to 95 °C Above 95 °C to 250 °C	    1.0 °C 1.0 °C 1.2 °C  0.2 °C 0.2 °C 0.2 °C  0.024 °C 0.023 °C 0.044 °C

® Unless otherwise specified, accredited activities are conducted at the laboratory.

\* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.



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Verification of toy testing tool and fixture		
- Accessibility probe A & B,	Verification for the following parameters in accordance with in-house method FFC 0003-2009:  - Length - Radius	0.02 mm 0.008 mm
- Bite test clamp	Verification for the following parameters in accordance with in-house method FFC 0005-2009:  - Length - Radius - Angle	0.05 mm 0.02 mm 5 minutes of arc
- Rattle test fixture	Verification for the following parameters in accordance with in-house method FFC 0004-2009:  - Length - Radius	0.009 mm 0.005 mm
- Sharp point tester	Verification for the following parameters in accordance with in-house method FFC 9812-2009:  - Length - Force	0.005 mm 0.05 N
- Small parts cylinder	Verification for length in accordance with in-house method FFC 0002-2009	0.006 mm

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