

SINGAPORE LABORATORY  
ACCREDITATION SCHEME



Number : **LA-2002-0265-C**

Date of Issue : **23 March 2020**

Date of Expiry : **10 November 2022**

# Certificate of Accreditation

This certifies that

**Cairnhill Metrology Pte Ltd**  
**5 Jalan Kilang Barat**  
**#07-05/06 Petro Centre**  
**Singapore 159349**

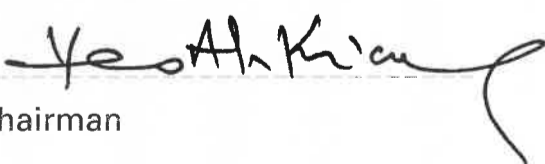
is accredited by the Singapore Accreditation Council to

**ISO / IEC 17025 : 2017**

for specific scope within the field of

**Calibration & Measurement**

as detailed in the attached schedule.

  
Chairman

This Certificate is awarded subject to the organisation's compliance with the stated criteria and terms and conditions laid down by the Singapore Accreditation Council.

This Certificate may not be reproduced except with the written permission of the Chairman.

# Schedule

Cairnhill Metrology Pte Ltd  
5 Jalan Kilang Barat  
#07-05/06 Petro Centre  
Singapore 159349

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FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES / RANGE / INSTRUMENTS TO BE CALIBRATED	METHOD OF CALIBRATION / INSTRUMENTS USED	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
<p>1. Profile Projector Travel 300 mm x 200 mm Resolution : 1 to 5 <math>\mu\text{m}</math></p> <p>(a) Starrett Measurement Projector</p> <p>(b) Generic Brands</p>	In-house Calibration Procedure (WI 15-10, V7)	2.0 $\mu\text{m}$
<p>2. Accretech TSK Roundness Measurement Machine Probing diameter up to 450 mm Resolution : 0.0001 <math>\mu\text{m}</math> <u>Feature examined</u> Roundness Parallelism</p>	In-house Calibration Procedure (WI 15-01, V7)	0.011 $\mu\text{m}$ 0.3 $\mu\text{m}$
<p>3. Accretech TSK Contour Testing Tracing Range X and Z up to 200 mm and 50 mm respectively Resolution : 0.1 to 1 <math>\mu\text{m}</math> <u>Feature Examined</u> Profile: Ball Diameter Step Height: Z-Axis</p>	In-house Calibration Procedure (WI 15-02, V7)	0.5 $\mu\text{m}$ 0.5 $\mu\text{m}$
<p>4. Accretech TSK Surface Roughness Testing (Contact Type)</p> <p>Measuring Range : 80 <math>\mu\text{m}</math> Resolution : 0.001 <math>\mu\text{m}</math> <u>Feature examined</u> Roughness, Ra</p>	In-house Calibration Procedure (WI 15-03, V7)	0.12 $\mu\text{m}$

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MEASURED QUANTITIES / RANGE INSTRUMENT TO BE CALIBRATED	METHOD OF CALIBRATION / INSTRUMENTS USED	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
5. Co-ordinate Measuring Machine (Contact Type)		
5a. Accretech TSK Range : X ≤ 800 mm Y ≤ 1200 mm Z ≤ 600 mm Resolution : 0.1 to 0.5 μm	In-house Calibration Procedure (WI 15-05, V7)	1.8 μm
5b. Generic Brands Range : X ≤ 1200 mm Y ≤ 3000 mm Z ≤ 1000 mm Resolution : 0.02 to 1 μm		1.7 μm
6. Optical / Non-Contact Co-ordinate Measuring Machine		
Starrett Non-Contact CMM Range : X ≤ 350 mm Y ≤ 350 mm Z ≤ 200 mm Resolution : 0.1 to 0.5 μm X and Y- axes Z-axis (For Contact Probe)	In-house Calibration Procedure (WI 15-11, V1)	2.0 μm 1.5 μm
7. Universal Length Metroscope ULM Calibration Range of Measuring Headstock: X ≤ 100 mm Resolution : 0.01 μm	In-house Calibration Procedure (WI 15-08, V7)	0.21 μm



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## Branch Offices

### **MALAYSIA**

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Malaysia

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### **THAILAND**

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### **PHILIPPINES**

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Ayala Alabang, Muntinlupa City  
1780 Philippines

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