SINGAPORE LABORATORY
ACCREDITATION SCHEME

Singapore Accreditation Council

Number : **LA-2002-0265-C-3**

Date of Issue : **11 November 2022**

Date of Expiry : **10 November 2026**

Certificate of Accreditation

This certifies that

Cairnhill Metrology (Phils) Inc
Unit 7-10, 8F Paz Madrigal Plaza, Lot-1 Finance St.,
Corner Industry St., Madrigal Business Park
Ayala Alabang, Muntinlupa City
1780 Philippines

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.

SINGAPORE LABORATORY ACCREDITATION SCHEME

Accredited Laboratory SAC-SINGLAS

Schedule

Cairnhill Metrology (Phils) Inc.
Unit 7-10 8F, Paz Madrigal Plaza, Lot-1 Finance St.
Corner Industry St., Madrigal Business Park
Ayala Alabang, Muntinlupa City
1780 Philippines

Certificate No. : LA-2002-0265-C-3

Issue No. : 11

Date : 14 November 2025

Expiry of Certificate : 10 November 2026

FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES / RANGE / INSTRUMENTS TO BE CALIBRATED	METHOD OF CALIBRATION / INSTRUMENTS USED	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
1. Co-ordinate Measuring Machine (Contact Type) Using Gauge Block	In-house Calibration Procedure (WI 15-05, V7)	
Up to 200 mm		0.6 μm
>200 mm to 300 mm		0.9 μm
>300 mm to 400 mm		1.0 μm
>400 mm to 500 mm		1.2 μm
>500 mm to 600 mm		1.6 μm
>600 mm to 800 mm		1.8 μm
>800 mm to 1000 mm		2.2 μm
2. Accretech TSK Roundness Measurement Machine Probing diameter up to 450 mm	In-house Calibration Procedure (WI 15-01, V7)	
Feature examined		
Roundness		0.006 μm
Parallelism		0.2 μm

Schedule

Accredited Laboratory SAC-SINGLAS

Certificate No. : LA-2002-0265-C-3 Issue No. : 11

Date : 14 November 2025 Page : 2 of 4

MEASURED QUANTITIES / RANGE / INSTRUMENTS TO BE CALIBRATED	METHOD OF CALIBRATION / INSTRUMENTS USED	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
3. Accretech TSK Contour Testing Machine Tracing Range X and Z up to 200 mm and 50 mm respectively Resolution : 0.1 to 1 μm	In-house Calibration Procedure (WI 15-02, V7)	
Feature Examined		
Profile: Ball Diameter		0.7 μm
Step Height: Z-Axis		0.7 μm
4. Nikon Measuring Microscope Range X & Y: 300 x 200 mm Resolution : 0.1 μm	In-house Calibration Procedure (WI 15-12, V1)	1.2 μm
5. Nikon Measuring Profile Projector Range X & Y: 200 x 150mm Resolution : 0.1 μm	In-house Calibration Procedure (WI 15-12, V1)	1.0 μm
Magnification		0.1%
6. Nikon Video Measuring System Measuring Machine Resolution : 0.1 μm	In-house Calibration Procedure (WI 15-13, V1)	
X & Y-axis (up to 300 mm)		0.7 μm
X & Y-axis (> 300 mm to 1000 mm)		1.2 μm
Z-axis (up to 70 mm)		0.9 μm
7. Universal Length Metroscope Zeiss Jena, OKM and EKM brands Resolution : 0.01 μm	In-house Calibration Procedure (WI 15-08, V7)	
Range of Measuring Headstock: X ≤ 100 mm		0.10 μm

Schedule

Accredited Laboratory SAC-SINGLAS

Certificate No. : LA-2002-0265-C-3 Issue No. : 11

Date : 14 November 2025 Page : 3 of 4

MEASURED QUANTITIES / RANGE / INSTRUMENTS TO BE CALIBRATED	METHOD OF CALIBRATION / INSTRUMENTS USED	CALIBRATION & MEASUREMENT CAPABILITY (CMC *)
8. Accretech TSK Surface Roughness Testing Machine (Contact Type) Measuring Range : 80 μm Resolution : 0.001 μm Roughness, Ra	In-house Calibration Procedure (WI 15-03, V7)	0.06 μm
9 (#) Portable Co-ordinate Measuring Machine (Hexagon Absolute RA7 and older) Resolution : 1 μm	In-house Calibration Procedure (WI 15-06, V1) ASME B89.4.22-2004 (R2014)	
a) Error Indication of Single Point Articulated Test (SPAT) is determined using Steel Trihedral Length Bar		5 μm
b) Error indication of Volumetric Performance Test is determined using Steel Trihedral Length bar: 1) 185, 390, 580 and 800 mm 2) 220, 410, 610, 805, 1005 and 1200 mm		5 μm
10 (#) Portable Co-ordinate Measuring Machine (Hexagon Absolute RA8 and newer) Resolution : 1 μm	In-house Calibration Procedure (WI 15-18, V1) ISO 10360-12 V2016	
a) Length measurement error, E_{UNI} : L up to 2400 mm		Q [0.006, 3.5E-06L], L in mm

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%.

Calibration Facility located at: Unit: 6, GF, Paz Madrigal Plaza, Lot-1 Finance St. Corner Industry St., Madrigal Business Park, Ayala Alabang, Muntinlupa City, 1780 Philippines.

Schedule

Accredited Laboratory SAC-SINGLAS

Certificate No. : LA-2002-0265-C-3 Issue No. : 11

Date : 14 November 2025 Page : 4 of 4

Approved Signatories:

Mr Lim Chen Kee	- For all items
Mr Loh Kum Seng	- For items 1 to 9 only
Mr Lim Seng Hoo	- For items 1 to 8 only
Mr Wong Kian Wah	- For Items 1, 2, 3, 7, 8 only
Mr Louie B. Eustaquio	- For items 1, 2, 3, 8 only
Mr Sutthipong Denkaew	- For item 9 to 10 only
Mr Jakkaphan Sripapat	- For item 9 to 10 only

Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment 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 calibration 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.