



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certification Accreditation

(Certificate No : L0955-220908)

This is to certify that

Gong-Hung Technology Co., Ltd.

GCH Technology Calibration Laboratory(Mass)

No.1, Ln. 36, Wenfeng St., Fengshan Dist., Kaohsiung City 830, Taiwan (R.O.C.)

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 0955

Originally Accredited : January 01, 2003

Effective Period : September 08, 2022 to September 07, 2025

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Ching-Chang Lien

Ching-Chang Lien
President, Taiwan Accreditation Foundation
September 08, 2022

Accreditation Number : 0955

Laboratory Head : HUNG, Chuan-Hsi

Mass/Force

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC1001 Standard Weight	Standard Weight METTLER/E ₂ ----/F1	GCH-SCP-G02	1	mg	1	mg	Stainless Steel	0.04	mg
			2	mg	2	mg	Stainless Steel	0.04	mg
			5	mg	5	mg	Stainless Steel	0.04	mg
			10	mg	10	mg	Stainless Steel	0.04	mg
			20	mg	20	mg	Stainless Steel	0.04	mg
			50	mg	50	mg	Stainless Steel	0.04	mg
			100	mg	100	mg	Stainless Steel	0.04	mg
			200	mg	200	mg	Stainless Steel	0.04	mg
			500	mg	500	mg	Stainless Steel	0.04	mg
			1	g	1	g	Stainless Steel	0.06	mg
			2	g	2	g	Stainless Steel	0.07	mg
			5	g	5	g	Stainless Steel	0.06	mg
			10	g	10	g	Stainless Steel	0.08	mg
			20	g	20	g	Stainless Steel	0.08	mg
			50	g	50	g	Stainless Steel	0.07	mg
			100	g	100	g	Stainless Steel	0.2	mg
			200	g	200	g	Stainless Steel	0.2	mg
			500	g	500	g	Stainless Steel	0.01	g
			1	kg	1	kg	Stainless Steel	0.01	g



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC1001 Standard Weight	Standard Weight METTLER/E2 ----/F1	GCH-SCP-G02	2	kg	2	kg	Stainless Steel	0.01	g
			5	kg	5	kg	Stainless Steel	0.2	g
			10	kg	10	kg	Stainless Steel	0.2	g
			20	kg	20	kg	Stainless Steel	0.3	g
Approval Signatory: HUNG, Chuan-Hsi									
KC1002 Balance (on-site calibration included)	Standard Weight METTLER /Grade E2 ---/Grade F1	GCH-SCP-G01 GCH-SCP-G03	1	mg	80	g	Readability ≥ 0.00001 g	0.26	mg
			>80	g	200	g	Readability ≥ 0.0001 g	0.4	mg
			1	g	4	kg	Readability ≥ 0.01 g	0.03	g
			10	g	20	kg	Readability ≥ 0.1 g	0.6	g
Approval Signatory: HUNG, Chuan-Hsi									
KC2004 Force Gauge	JIHSENSE /S-10/21018 JIHSENSE/LR M-50/100222	GCH-SCP-C03	9.8 (1)	N (kgf)	98 (10)	N (kgf)	compression	0.20 (0.020)	N (kgf)
			49 (5)	N (kgf)	490 (50)	N (kgf)	compression	0.3 (0.03)	N (kgf)
			9.8 (1)	N (kgf)	98 (10)	N (kgf)	tension	0.23 (0.023)	N (kgf)
			49 (5)	N (kgf)	490 (50)	N (kgf)	tension	0.4 (0.04)	N (kgf)
Approval Signatory: HUNG, Chuan-Hsi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC2005 Material Testing Machine (On-site calibration included)	Load CellJIHSENSE /LRM-200	GCH-SCP-C04	392 (40)	N (kgf)	< 785 (< 80)	N (kgf)	compression	0.36	%
			785 (80)	N (kgf)	< 1177 (< 120)	N (kgf)	compression	0.18	%
			1177 (120)	N (kgf)	< 1569 (< 160)	N (kgf)	compression	0.12	%
			1569 (160)	N (kgf)	< 1961 (< 200)	N (kgf)	compression	0.09	%
			1961 (200)	N (kgf)	1961 (200)	N (kgf)	compression	0.07	%
			392 (40)	N (kgf)	< 785 (< 80)	N (kgf)	tension	0.40	%
			785 (80)	N (kgf)	< 1177 (< 120)	N (kgf)	tension	0.20	%
			1177 (120)	N (kgf)	< 1569 (< 160)	N (kgf)	tension	0.14	%
			1569 (160)	N (kgf)	< 1961 (< 200)	N (kgf)	tension	0.11	%
			1961 (200)	N (kgf)	1961 (200)	N (kgf)	tension	0.08	%
Approval Signatory: HUNG, Chuan-Hsi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC2005 Material Testing Machine (On-site calibration included)	Load Cell JIHSENSE/LR M-500	GCH-SCP-C04	981 (100)	N (kgf)	< 1961 (< 200)	N (kgf)	compression	0.39	%
			1961 (200)	N (kgf)	< 2942 (< 300)	N (kgf)	compression	0.19	%
			2942 (300)	N (kgf)	< 3923 (< 400)	N (kgf)	compression	0.13	%
			3923 (400)	N (kgf)	< 4903 (< 500)	N (kgf)	compression	0.10	%
			4903 (500)	N (kgf)	4903 (500)	N (kgf)	compression	0.08	%
			981 (100)	N (kgf)	< 1961 (< 200)	N (kgf)	tension	0.39	%
			1961 (200)	N (kgf)	< 2942 (< 300)	N (kgf)	tension	0.19	%
			2942 (300)	N (kgf)	< 3923 (<400)	N (kgf)	tension	0.13	%
			3923 (400)	N (kgf)	< 4903 (< 500)	N (kgf)	tension	0.10	%
			4903 (500)	N (kgf)	4903 (500)	N (kgf)	tension	0.08	%
Approval Signatory: HUNG, Chuan-Hsi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC2005 Material Testing Machine (On-site calibration included)	Load Cell JIHSENSE /LRM-1000	GCH-SCP-C04	1961 (200)	N (kgf)	< 3923 (< 400)	N (kgf)	compression	0.33	%
			3923 (400)	N (kgf)	< 5884 (< 600)	N (kgf)	compression	0.16	%
			5884 (600)	N (kgf)	<7845 (< 800)	N (kgf)	compression	0.11	%
			7845 (800)	N (kgf)	< 9807 (< 1000)	N (kgf)	compression	0.10	%
			9807 (1000)	N (kgf)	9807 (1000)	N (kgf)	compression	0.07	%
			1961 (200)	N (kgf)	< 3923 (< 400)	N (kgf)	tension	0.56	%
			3923 (400)	N (kgf)	< 5884 (< 600)	N (kgf)	tension	0.28	%
			5884 (600)	N (kgf)	< 7845 (< 800)	N (kgf)	tension	0.19	%
			7845 (800)	N (kgf)	< 9807 (< 1000)	N (kgf)	tension	0.14	%
			9807 (1000)	N (kgf)	9807 (1000)	N (kgf)	tension	0.11	%
Approval Signatory: HUNG, Chuan-Hsi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC2005 Material Testing Machine (On-site calibration included)	Load Cell JIHSENSE /LRM-2000	GCH-SCP-C04	3923 (400)	N (kgf)	< 7845 (< 800)	N (kgf)	compression	0.42	%
			7845 (800)	N (kgf)	< 11768 (< 1200)	N (kgf)	compression	0.21	%
			11768 (1200)	N (kgf)	< 15691 (< 1600)	N (kgf)	compression	0.14	%
			15691 (1600)	N (kgf)	< 19613 (< 2000)	N (kgf)	compression	0.10	%
			19613 (2000)	N (kgf)	19613 (2000)	N (kgf)	compression	0.08	%
			3923 (400)	N (kgf)	< 7845 (< 800)	N (kgf)	tension	0.30	%
			7845 (800)	N (kgf)	< 11768 (< 1200)	N (kgf)	tension	0.15	%
			11768 (1200)	N (kgf)	< 15691 (< 1600)	N (kgf)	tension	0.10	%
			15691 (1600)	N (kgf)	< 19613 (< 2000)	N (kgf)	tension	0.07	%
			19613 (2000)	N (kgf)	19613 (2000)	N (kgf)	tension	0.06	%
Approval Signatory: HUNG, Chuan-Hsi									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC2099 Hanging Scale	Load Cell --- /5000 kg	GCH-SCP-C05	980 (100)	N (kgf)	19600 (2000)	N (kgf)	Resolution $\geq$ 0.5 kgf	80 (8.1)	N (kgf)
Approval Signatory: HUNG, Chuan-Hsi									
KC4001 Torque Wrench	OLY/970750 (500 N m) /101267 CEDAR /DIS-IP50 /85709	ISO 6789-1: 2017 ISO 6789-2: 2017 Torque Wrench Calibration Procedure (Document No.: GCH-SCP-C01)	4.0	N m	7.9	N m	Clockwise	1.4	%
			8.0	N m	11.9	N m	Clockwise	1.4	%
			12.0	N m	15.9	N m	Clockwise	1.4	%
			16.0	N m	20.0	N m	Clockwise	1.4	%
			20.0	N m	39.9	N m	Clockwise	1.2	%
			40.0	N m	59.9	N m	Clockwise	1.0	%
			60.0	N m	79.9	N m	Clockwise	1.0	%
			80.0	N m	99.9	N m	Clockwise	1.0	%
			100.0	N m	120.0	N m	Clockwise	1.0	%
			100.0	N m	199.9	N m	Clockwise	1.0	%
			200.0	N m	299.9	N m	Clockwise	0.9	%
			300.0	N m	399.9	N m	Clockwise	0.8	%
			400.0	N m	500.0	N m	Clockwise	0.7	%
			4.0	N m	7.9	N m	Counterclockwise	1.0	%
			8.0	N m	11.9	N m	Counterclockwise	1.0	%
			12.0	N m	15.9	N m	Counterclockwise	1.0	%
			16.0	N m	20.0	N m	Counterclockwise	1.0	%
			20.0	N m	39.9	N m	Counterclockwise	1.1	%
			40.0	N m	59.9	N m	Counterclockwise	1.0	%



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC4001 Torque Wrench	OLY/970750 (500 N m) /101267 CEDAR /DIS-IP50 /85709	ISO 6789-1: 2017 ISO 6789-2: 2017 Torque Wrench Calibration Procedure (Document No.: GCH-SCP-C01)	60.0	N m	79.9	N m	Counterclockwise	0.9	%
			80.0	N m	99.9	N m	Counterclockwise	0.9	%
			100.0	N m	120.0	N m	Counterclockwise	0.9	%
			100.0	N m	199.9	N m	Counterclockwise	1.0	%
			200.0	N m	299.9	N m	Counterclockwise	0.9	%
			300.0	N m	399.9	N m	Counterclockwise	0.8	%
			400.0	N m	500.0	N m	Counterclockwise	0.7	%
Approval Signatory: HUNG, Chuan-Hsi									
KC4002 Torque Screwdriver	ALGOL/IT-20/IT-010052	ISO 6789-1: 2017 ISO 6789-2: 2017 Torque Screwdriver Calibration Procedure (Document No.: GCH-SCP-C02)	0.8	N m	1.5	N m	Clockwise	2.4	%
			1.6	N m	2.3	N m	Clockwise	2.2	%
			2.4	N m	3.1	N m	Clockwise	2.1	%
			3.2	N m	4.0	N m	Clockwise	2.0	%
			0.8	N m	1.5	N m	Counterclockwise	2.4	%
			1.6	N m	2.3	N m	Counterclockwise	2.2	%
			2.4	N m	3.1	N m	Counterclockwise	2.1	%
			3.2	N m	4.0	N m	Counterclockwise	2.0	%
Approval Signatory: HUNG, Chuan-Hsi									



Chemical

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KI9004 Measuring Cylinder	Balance METTLER /MS205DU Balance ViBRA /AJ4200E	GCH-SCP-G04	2	mL	10	mL		0.065	mL
			>10	mL	100	mL		0.35	mL
			>100	mL	250	mL		0.76	mL
			>250	mL	1000	mL		3.3	mL
			>1000	mL	2000	mL		6.5	mL
Approval Signatory: HUNG, Chuan-Hsi									

Note: Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.

(Null Below)

