



Certificate of Calibration

Certificate Number : SPR23030377-1

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Customer : PMJ Testing & Engineering Co.,Ltd

11/13 Soi Udomsuk, Watkodhin-Khaopai Rd., Nernpra,
Muang-Rayong, Rayong 21150 Thailand

Equipment Name : Crane Scale

Manufacturer : Tiger

Model : TC-01

Serial Number : AL596

ID. Number : N/A

Environmental Conditions

Ambient Temperature : $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative Humidity : $50\% \pm 15\%$

Location of Calibration : In-Lab

Calibration Procedure : SP-CPM-04-08

Received Date : 22 Mar 2023

Calibration Date : 22 Mar 2023

Recommend Due Date : 22 Mar 2024

Date of Issue : 23 Mar 2023

Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received. Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

All calibrations are performed within manufacture's specifications. The calibration certificate shall not be reproduced except in full, without written approval of SP Metrology System (Thailand).

Calibrated by : Mr. Witthawat Jansuwan

Calibration Officer

Approved by :

(Mr. Nirut Loha)

Authorized Signatory



Calibration Report

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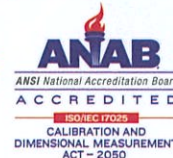
Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
Standard Load Cell 5 Ton	KEED-5t	AY38313	FU1-327-2022	21 Apr 2023

Traceability

This certification is traceable to the International System of Unit maintained at :

INTRO - INTRO TSC Co., Ltd



Result of Calibration

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Calibration Range : 0 kg to 3000 kg

Capacity : 3000 kg

Calibration mode : Tensile Testing Machine

Resolution : 1 kg

Tension

Unit : kg

Indicated Force (Fi)	UUC Reading				Average	(±) Expanded Uncertainty	
	Increase			Decrease			
	F1	F2	F3	F'		(%)	(kg)
300	300	300	300	300	300	0.16	0.49
600	600	600	600	600	600	0.16	0.96
900	900	900	900	900	900	0.16	1.4
1200	1200	1200	1200	1200	1200	0.16	1.9
1500	1500	1500	1500	1500	1500	0.16	2.4
1800	1800	1800	1800	1800	1800	0.16	2.9
2100	2100	2100	2100	2100	2100	0.16	3.4
2400	2400	2400	2400	2400	2400	0.16	3.8
2700	2700	2700	2700	2700	2700	0.16	4.3
3000	3000	3000	3000	3000	3000	0.16	4.8

The uncertainty evaluation has been carried out in accordance with BS EN ISO 7500-1 requirements.

Note:

The result of calibration was found accurate as show on date and place of calibration only.

This Certificate is not certified for any commercial transaction.

Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95%

– End of Certificate –