



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

HYTORC INTL, Division UNEX Corp.

333 Route 17 North, Mahwah, NJ 07430

7A Innes Road, Freight City, Jetpark, Johannesburg 1609, South Africa

MV001- Mobile Laboratory, MV0022 -Mobile Laboratory

2 Gul Street 3, Singapore 629261

Taman Tekno BSD Blok H8 no. 6, Serpong, Tangerang Selatan 15314

Building no. 4450, Majd Al Deen Street, An Nahda District, 6505 Dammam, Saudi Arabia

Warehouse AC-05 (North) Jebel Ali Free Zone, PO Box 18683, Dubai UAE

6-1-1-BE4-S(B) Heiwajima, Ota-ku, Tokyo, 143-0006 Japan

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Mechanical Calibration ***(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

June 01, 2023

Issue Date:

June 01, 2023

Expiration Date:

July 31, 2025

Revision Date:

July 25, 2024

Accreditation No.:

117961

Certificate No.:

L23-426-R3

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

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 6-1-1-BE4-S(B) Heiwajima, Ota-ku, Tokyo, 143-0006 Japan
 Contact Name: Mr. Pietro Barcia Phone No: 201-773-7791

Accreditation is granted to the facility to perform the following calibration:

**7A Innes Road, Freight City, Jetpark, Johannesburg 1609
 MV001- Mobile Laboratory, MV002 -Mobile Laboratory**

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Gage ^{FO}	Up to 10 000 psi	0.3 % of reading	AKO Pressure Transducer TSD 10KPT, Display TSD6500	HWI 303
	Up to 300 psi	0.3 % of reading	Crystal Engineering Pressure Calibrator 300PSIX2I	HY-WI-03-007
Hydraulic Torque ^O	Up to 20 000 lbf· ft	1 % of reading	AKO Torque Transducer TSD20011, AKO Pressure Transducer TSD 10KPT, Display TSD6500	HWI 319
Manual Torque Wrench ^{FO}	1 lbf. in to 50 lbf. in	1.8 % of reading	CDI Suretest 5000-3 Torque Calibration System: Torque Transducer 2000-12-02, Display 5000-ST	ASME B107.300 supported by WI-328
	51 lbf. in to 400 lbf. in			
	401 lbf.in to 1 000 lbf.in			
	20 lbf. ft to 250 lbf. ft			
	251 lbf. ft to 600 lbf. ft			
Pneumatic Torque Wrench ^{FO}	Up to 10 000 lbf· ft	0.7 % of reading	AKO Torque Transducer TSD20011, Display TSD6500, 0-100 psi Pressure Gauge	HWI 333 HWI 345
Electric Torque Wrench ^{FO}	Up to 10 000 lbf· ft	1.7 % of reading	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500	HWI 339
Hydraulic Torque ^F	Up to 40 000 lbf· ft	0.9 % of reading	AKO Torque Master Calibration System: Torque Transducer TSD40011, TSD20011, Pressure Transducer TSD 10KPT, Display TSD6500	HWI 319



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 Contact Name: Mr. Pietro Barcia Phone No: 201-773-7791

Accreditation is granted to the facility to perform the following calibration:

2 Gul Street 3, Singapore 629261

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Gage ^F	Up to 10 000 psi	0.3 % of reading	AKO Pressure Transducer TSD 10KPT, Display TSD6500	HWI 303
	Up to 300 psi	0.3 % of reading	Crystal Engineering Pressure Calibrator 300PSIX2I	HY-WI-03-007
Hydraulic Torque ^F	Up to 10 000 lbf· ft	1 % of reading	AKO Torque Transducer TSD10011, AKO Pressure Transducer, TSD10KPT, Display TSD6500	HWI 319
Manual Torque Wrench ^F	1 lbf.in to 50 lbf.in	1.8 % of reading	CDI Suretest 5000-3 Torque Calibration System: Torque Transducer 2000-12-02, Display 5000-ST	ASME B107.300 supported by WI-328
	51 lbf.in to 400 lbf. in			
	401 lbf.in to 1 000 lbf.in			
	20 lbf. ft to 250 lbf. ft			
	251 lbf. ft to 600 lbf. ft			
Pneumatic Torque Wrench ^F	Up to 10 000 lbf· ft	0.7 % of reading	AKO Torque Transducer TSD20011, Display TSD6500, 0-100 psi Pressure Gauge	HWI 333 HWI 345
Electric Torque Wrench ^F	Up to 10 000 lbf· ft	1.7 % of reading	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500	HWI 339
Hydraulic Torque ^F	Up to 40 000 lbf· ft	0.9 % of reading	AKO Torque Master Calibration System: Torque Transducer TSD40011, TSD10011, Pressure Transducer TSD 10KPT, Display TSD6500	HWI 319



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Accreditation is granted to the facility to perform the following calibration:

HYTORC INTL, Division, UNEX Corp.-Indonesia

HYTORC INTL, Division, UNEX Corp.-Saudi Arabia

Mechanical

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Hydraulic Torque Wrench ^F	Up to 20 000 lbf· ft	0.3 % of readings	AKO Torque Master Calibration System, Torque Transducer TSD20011, Pressure Transducer TSD IOKPT, Display TSD6500	HWI 319
Manual Torque Wrench ^F	Up to 600 lbf· ft	1.4 % of readings	CDI Suretest 5000-3 Torque Calibration System: Torque Transducer 200012-02, Display 5000-ST	I-IWI 328
Pressure Gage ^F	Up to 10 000 psi	0.3 % of readings	AKO Pressure Transducer TSD 10 KPT, Display TSD6500-2	HWI 303
Pneumatic Torque Wrench ^F	10.8 1b ft to 8 500 lbf ft	1.1 % of reading	AKO Torque Master Calibration System, TSD20011, TSD6500	WI 333
Electric Torque Wrench ^F	11.9 1b ft to 8 500 lbf ft	1 % of reading		WI 339



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Accreditation is granted to the facility to perform the following calibration:
HYTORC INTL, Division, UNEX Corp.-Dubai

Mechanical

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Pressure Gage ^F	Up to 10 000 psi	0.3 % of reading	AKO Pressure Transducer TSD 10KPT, Display TSD6500	HWI 303
	Up to 300 psi	0.3 % of reading	Crystal Engineering Pressure Calibrator 300PSIX2I,	HY-WI-03-007
Hydraulic Torque ^F	Up to 20 000 lbf. ft.	1.1 % of Reading	AKO Torque Master Calibration System: Torque Transducer TSD20011, Pressure Transducer TSD 10KPT, Display TSD6500-3	HWI 319
	20 001 lbf.ft to 40 000 lbf.ft	1.0 % of Reading		
Manual Torque Wrench ^F	1 lbf.in to 50 lbf.in	1.3 % of reading	CDI Suretest 5000-3 Torque Calibration System: Torque Transducer 2000-12-02, Display 5000-ST	ASME B107.300 supported by WI-328
	51 lbf.in to 400 lbf.in			
	401 lbf.in to 1 000lbf.in			
	20 lbf.ft to 250 lbf.ft	1.4 % of reading		
251 lbf.ft to 600 lbf.ft				
Pneumatic Torque Wrench ^F	Up to 2,000 lbf. ft.	1.2 % of Reading	AKO Torque Transducer TSD 2011,0-100 psi Pressure Gauge. Display TSD6500-3	HWI 333 HWI 345
	2 001 lbf.ft to 10 000 lbf.ft	1.4 % of Reading	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500-3, 0-100 psi Pressure Gauge	
Electric Torque Wrench ^F	Up to 2 000 lbf.ft	1.2 % of Reading	AKO Torque Master Calibration System: Torque Transducer TSD 2011, Display TSD6500-3	HWI 339
	2 001 lbf.ft to 10 000 lbf.ft	1.7 % of Reading	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500-3	



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HYTORC INTL, Division, UNEX Corp.-Japan

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Hydraulic Pressure Gauges ^{FO}	Up to 10 000 psi	0.3 % of reading	AKO Pressure Transducer TSD 10KPT, Display TSD6500	HWI 303
Hydraulic Torque Wrenches ^{FO}	Up to 40 000 lbf. ft	1.1 % of reading	AKO Torque Master Calibration System: Torque Transducer	HWI 319
Electrical Torque ^{FO}	Up to 10 000 lbf. ft	1.2 % of reading	TSD40011, TSD20011, TSD2011, Pressure Transducer	HWI 339
Pneumatic Torque ^{FO}	Up to 10 000 lbf. ft	1.1 % of reading	TSD10KPT, Display TSD6500	HWI 333 HWI 345
Manual Torque Wrenches ^{FO}	Up to 600 lbf. ft	1.2 % of reading	CDI Suretest 5000-3 Torque Calibration System: Torque Transducer 2000-12-02, Display 5000-ST	HWI 328

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represent the smallest measurement uncertainties attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.



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Accreditation is granted to the facility to perform the following calibration:

4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
6. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.

