# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

# *Certificate of Accreditation*

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

## *TORTECH CORPORATION*
## *Calibration Laboratory*

***4-17-25 Mitejima, Nishiyodogawa-ku, Osaka-shi, Osaka 555-0012***

*and hereby declares that the Organization is accredited in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

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

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope.
This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

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

| *Initial Accreditation Date:* | *Issue Date:* | *Expiration Date:* |
|---|---|---|
| December 20, 2024 | December 20, 2024 | February 28, 2027 |
| *Revision Date:* | *Accreditation No.:* | *Certificate No.:* |
| September 12, 2025 | 128220 | L24-969-R1 |

*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.pjlabs.com*

# *Certificate of Accreditation: Supplement*

## TORTECH CORPORATION
### Calibration Laboratory

4-17-25 Mitejima, Nishiyodogawa-ku, Osaka-shi, Osaka 555-00120
Contact Name: Tamotsu Harino  Phone: 06-6473-7550

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

| FIELD OF CALIBRATION | MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | EXPANDED MEASUREMENT UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED | FLEX CODE | LOCATION OF ACTIVITY |
|---|---|---|---|---|---|---|---|
| Mechanical | Hydraulic torque wrench | 136 N·m to 6 800 N·m | 0.001 7 N·m/N·m + 7.6 N·m | Torque calibrator TBOX-2<br>Pressure transducer TPS-1-F-B01M-T<br>Transducer 50630.LOG | Hydraulic Torque Wrench Calibration Procedures (TB00013) | F3 | F |
| | | 5 000 N·m to 50 000 N·m | 0.021 N·m/N·m + 230 N·m | Torque calibrator TBOX-2<br>Pressure transducer TPS-1-F-B01M-T<br>Transducer 50781.LOG | Hydraulic Torque Wrench Calibration Procedures (TB00013) | F3 | F |
| | Electric torque wrench | 680 N·m to 6 800 N·m | 0.009 1 N·m/N·m + 25 N·m | Transducer 50630.LOG | Electric Torque Wrench Calibration Procedures (TB00007) | F3 | F |
| | Hand torque wrench | 4 N·m to 25 N·m | 0.033 N·m/N·m + 0.66 N·m | Transducer 50673.LOG | Hand Torque Wrench Calibration Procedures (TB00010) | F3 | F |
| | | 7.5 N·m to 150 N·m | 0.011 N·m/N·m + 1.1 N·m | Transducer 50674.LOG | Hand Torque Wrench Calibration Procedures (TB00010) | F3 | F |
| | | 20 N·m to 400 N·m | 0.005 1 N·m/N·m + 2.1 N·m | Transducer 50675.LOG | Hand Torque Wrench Calibration Procedures (TB00010) | F3 | F |
| | | 30 N·m to 1 500 N·m | 0.012 N·m/N·m + 12 N·m | Transducer 50676.LOG | Hand Torque Wrench Calibration Procedures (TB00010) | F3 | F |

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## TORTECH CORPORATION
## Calibration Laboratory

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|---|---|---|---|---|---|---|---|
| Mechanical | Bolt tensioner | 30 kN to 1 280 kN | 0.007 5 kN/kN + 6.0 kN | Load cell CCSI-100T (STD Type) | Bolt Tensioner Calibration Procedures (TB00008) | F3 | F |
| | | 550 kN to 2 320 kN | 0.007 1 kN/kN + 16 kN | Load cell CCSI-100T (WTD Type) | Bolt Tensioner Calibration Procedures (TB00008) | F3 | F |
| | Pressure gauge | 10 MPa to 150 Mpa | 0.004 0 MPa/MPa + 0.60 MPa | Digital pressure gauge PG-2TH | Pressure Gauge (Hydraulic Pump) Calibration Procedures (TB00009) | F3 | F |
| | | 50 MPa to 200 MPa | 0.003 2 MPa/MPa + 0.65 MPa | Digital pressure gauge PGH-S-250MPSA19 | Pressure Gauge (Hydraulic Pump) Calibration Procedures (TB00009) | F3 | F |

1. The CMC (Calibration and Measurement Capability) is expressed in terms of measurement instrument/aspect being calibrated, range, expanded measurement uncertainty, equipment, and method/procedure. The expanded measurement uncertainty stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically 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 measurement uncertainty included on this scope 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 laboratory's range of calibration capability for all disciplines for which it is 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. Location of activity: Location Code – Location
   F - Conformity assessment activity is performed at the CAB's fixed facility

# *Certificate of Accreditation: Supplement*

**TORTECH CORPORATION**
**Calibration Laboratory**
4-17-25 Mitejima, Nishiyodogawa-ku, Osaka-shi, Osaka 555-00120
Contact Name: Tamotsu Harino  Phone: 06-6473-7550

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

4. Flex Codes
   F0: When no flexibility is identified. There are no changes to items calibrated, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.
   F1: The laboratory has the capability to introduce a new instrument, quantity, or gauge for an accredited calibration method.
   F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
   F3: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
   F4: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using the same Calibration Equipment or Reference Standards) identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.

# ペリージョンソン ラボラトリー
# アクレディテーション インク

## 認　　定　　証

ペリージョンソン ラボラトリー アクレディテーション インクは、
下記の組織を審査しました。

## 株式会社トルテック　校正試験所

〒555-0012　大阪府大阪市西淀川区御幣島 4-17-25

ここに本組織が、以下の認知された国際規格に基づき、認定されたことを証します。

## ISO/IEC 17025:2017

本認定により、以下の分野において、関連する認定範囲付属書の技術的能力が確認されました。

**機械的校正**
**(詳細は付属書に記述)**

適合性評価活動に対する認定資格は、本認定証内で言及された住所のみを対象とし、関連する認定範囲で特定された活動のみに適用されます。
本認定は、上記規格の認定を管理する認定機関の規定に従って授与され、本組織はその規定を遵守することをここに誓約します。

PJLA

トレーシー　サーツェン
プレジデント
Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver Rd., Suite 1325, Troy, Michigan 48084

| 初回認定日 | 発行日 | 認定証有効期限 |
|---|---|---|
| 2024 年 12 月 20 日 | 2024 年 12 月 20 日 | 2027 年 2 月 28 日 |
| **改訂日** | **認定番号** | **認定証番号** |
| 2025 年 9 月 12 日 | 128220 | L24-969-R1 |

この認定証の有効性は、持続された認定に基づく継続審査を通して維持されています。
PJLAウェブサイト (www.pjlabs.com)でご確認いただけます

尚、本認定証は日本語翻訳版であり、英文の認定証を正式のものとします。

# 認　定　証　付　属　書

株式会社トルテック 校正試験所
〒555-0012　大阪府大阪市西淀川区御幣島 4-17-25
播野　保　Tel: 06-6473-7550

本認定を、上記組織が実施する下記の適合性評価活動について授与します。

| 校正分野 | 測定機器、数量又はゲージ | 範囲（及び仕様） | 拡張測定不確かさ（±） | 使用された校正機器及び参照標準 | 使用された校正測定方法又は手順 | フレックスコード | 活動場所 |
|---|---|---|---|---|---|---|---|
| 機械的校正 | 油圧トルクレンチ | 136 N·m to 6800 N·m | 0.0016 N·m/N·m + 7.6 N·m | トルクキャリブレータ TBOX-2<br>圧力トランスデューサ TPS-1-F-B01M-T<br>トランスデューサ 50630.LOG | 校正手順書油圧トルクレンチ(TB00013) | F3 | F |
| | | 5000 N·m to 50000 N·m | 0.0051 N·m/N·m + 230 N·m | トルクキャリブレータ TBOX-2<br>圧力トランスデューサ TPS-1-F-B01M-T<br>トランスデューサ 50781.LOG | 校正手順書油圧トルクレンチ(TB00013) | F3 | F |
| | 電流駆動トルクレンチ | 680 N·m to 6800 N·m | 0.0091 N·m/N·m + 25 N·m | トランスデューサ 50630.LOG | 校正手順書電流駆動トルクレンチ(TB00007) | F3 | F |
| | ハンドトルクレンチ | 4 N·m to 25 N·m | 0.033 N·m/N·m + 0.66 N·m | トランスデューサ 50673.LOG | 校正手順書ハンドトルクレンチ(TB00010) | F3 | F |
| | | 7.5 N·m to 150 N·m | 0.011 N·m/N·m + 1.1 N·m | トランスデューサ 50674.LOG | 校正手順書ハンドトルクレンチ(TB00010) | F3 | F |
| | | 20 N·m to 400 N·m | 0.0051 N·m/N·m + 2.1 N·m | トランスデューサ 50675.LOG | 校正手順書ハンドトルクレンチ(TB00010) | F3 | F |
| | | 30 N·m to 1500 N·m | 0.012 N·m/N·m + 12 N·m | トランスデューサ 50676.LOG | 校正手順書ハンドトルクレンチ(TB00010) | F3 | F |

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〒555-0012　大阪府大阪市西淀川区御幣島 4-17-25
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|---|---|---|---|---|---|---|---|
| 機械的校正 | ボルトテンショナー | 30 kN to 1280 kN | 0.0075 kN/kN + 6.0 kN | ロードセル CCSI-100T(STD Type) | 校正手順書ボルトテンショナー(TB00008) | F3 | F |
| | | 550 kN to 2320 kN | 0.0071 kN/kN + 16 kN | ロードセル CCSI-100T(WTD Type) | 校正手順書ボルトテンショナー(TB00008) | F3 | F |
| | 圧力ゲージ | 10 MPa to 150 Mpa | 0.0040 MPa/MPa + 0.60 MPa | デジタル圧力計 PG-2TH | 校正手順書圧力ゲージ(油圧ポンプ)(TB00009) | F3 | F |
| | | 50 MPa to 200 MPa | 0.0032 MPa/MPa + 0.65 MPa | デジタル圧力計 PGH-S-250MPSA19 | 校正手順書圧力ゲージ(油圧ポンプ)(TB00009) | F3 | F |

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