sanas
South African National Accreditation System

# CERTIFICATE OF ACCREDITATION

*In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-*

**TORQUE TOOL (PTY) LTD**
**Torque Calibration Laboratory**
**Co. Reg. No.: 1980/006505/07**

Accreditation Number: **817**

is a South African National Accreditation System accredited Calibration Laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation Annexure "A", bearing the above accreditation number for

## TORQUE METROLOGY

The facility is accredited in accordance with the recognised International Standard

**ISO/IEC 17025:2017**

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates

**Mr T Baleni**
**Acting Chief Executive Officer**

**Effective Date: 19 April 2022**
**Certificate Expires: 30 January 2027**

ANNEXURE A

# SCOPE OF ACCREDITATION

## TORQUE METROLOGY

Accreditation Number: 817


**Permanent Address of Laboratory:**
Torque Tool (Pty) Ltd
Torque Calibration Laboratory
7 Lanston Road
Robertsham
2091

**Postal Address:**
P O Box 261546
Excom
2023

Tel: (011) 624-2511
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**Technical Signatory:** Mr B Reynolds

**Nominated Representative:** Mr B Reynolds

Issue No.: 16
Date of Issue: 19 April 2022
Expiry Date: 30 January 2027

| ITEM | MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT | RANGE OF MEASURED QUANTITY | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | METHOD / PROCEDURE |
|---|---|---|---|---|
| **5** | **TORQUE** | | | |
| **5.1** | **Torque Measuring Devices** | | | |
| 5.1.1 | Torque Transducers (including Torque Calibration Analysers) | 0,01 N•m to 2,0 N•m<br>2,0 N•m to 1 500 N•m | (0,002•T + 0,0003) N•m<br>0,001• T N•m | Calibration using a lever and dead weight system. |
| **5.2** | **Torque Generating Devices** | | | |
| 5.2.1 | Torque Wrenches | 0,2 N•m to 12 N•m<br>12 N•m to 50 N•m<br>50 N•m to 1 000 N•m<br>1 000 N•m to 4 000 N•m | (0,01•T + 0,005) N•m<br>0,005•T N•m<br>0,003•T N•m<br>0,02•T N•m | Calibration in a torque rig against a standard torque reference transducer. |
| 5.2.2 | Torque Screwdrivers | 0,01 N•m to 15 N•m | (0,01•T + 0,005) N•m | |
| 5.2.8 | Closure Meters | 0,01 N•m to 15 N•m | (0,004•T + 0,003) N•m | Calibration against a reference transducer. |

Original Date of Accreditation: 01 June 1994



The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

**Accreditation Manager**