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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:-

ATLAS COPCO INDUSTRIAL TECHNIQUE
A DIVISION OF
ATLAS COPCO INDUSTRIAL SA (PTY) LTD
Co. Reg. No.: 2017/206999/07

Accreditation Number: **870**

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: 08 December 2021
Certificate Expires: 07 December 2026

ANNEXURE A

SCOPE OF ACCREDITATION

TORQUE METROLOGY

Accreditation Number: 870

Permanent Address of Laboratory:
Atlas Copco Industrial Technique
A Division of Atlas Copco Industrial SA (Pty) Ltd
10 Innes Road
Jetpark
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1459

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Technical Signatories: Mr N van Zyl, Mr FJ Labuschagne

Nominated Representative: Mr N van Zyl

Issue No.: 09
Date of Issue: 08 December 2021
Expiry Date: 07 December 2026

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
4	**FORCE**			
4.1	**Tension**			
4.1.3	Hydraulic Tensioners	10 kN to 3 000 kN	2,0 %	Comparison by reference standard.
5	**TORQUE**			
5.1	**Torque Measuring Devices**			
5.1.1	Torque Transducers	0,2 N•m to 1 N•m 1 N•m to 3 000 N•m	0,7% 0,5 %	By comparison measurement with reference torque transducer.
5.1.4	Electronic Torque Readout units	21 N•m to 109 N•m	1,0 %	By electrical simulation.
5.2	**Torque Generating Devices**			
5.2.1	Torque Wrenches	1 N•m to 1 000 N•m 1 000 N•m to 2 000 N•m	0,5 % 2,0 % + 5,0 N•m	By comparison measurement with reference torque transducer.
5.2.2	Torque Screwdrivers	0,1 N•m to 20 N•m	2,0 % + 0,04 N•m	
5.2.3	Electronic Torque Tools	0,4 N•m to 4 200 N•m	2,5 % + 0,04 N•m	
5.2.4	Pneumatic Torque Tools	0,4 N•m to 2 000 N•m	2,5 % + 0,04 N•m	
5.2.5	Hydraulic Torque Tools	250 N•m to 45 000 N•m	2,5 %	

Original Date of Accreditation: 08 December 2016

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%

Accreditation Manager

ANNEXURE A

Accreditation No.: 870
Date of Issue: 08 December 2021
Expiry Date: 07 December 2026

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
5.3	**Torque Angle**			
5.3.1	Torque Angle Transducers	0° to 360°	0,5°	By comparison measurement with reference angle encoder.
5.3.2	Torque Wrench Angle	0° to 360°	0,5°	
5.3.3	Electronic Torque Tool Angle	0° to 360°	2,0°	
6	On-Site calibration for all items.			

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