



HYTORC

CERTIFICATE OF CALIBRATION

HYTORC Division, UNEX Corporation
100 Wesley St.
South Hackensack, New Jersey 07606
Phone: 201-512-9500

PJLA Accreditation #66167

MANUFACTURER HYTORC
TOOL MODEL AVANTI 1
STATED ACCURACY $\pm 3\%$ OF HYTORC STANDARD PRESSURE/TORQUE CONVERSION CHART
TORQUE RANGE 196 to 1,284 Lb.ft
PRESSURE RANGE 1,500 to 10,000 psi

SERIAL # A1TR2109-225
ASSET # N/A

PROCEDURE AND METHOD USED

319 Hydraulic Torque Tool Calibration R3.0 Version 3.0

CALIBRATION EQUIPMENT USED

Torque Specialties TORQUE MASTER Automated Hydraulic Calibration System

[X] TSD20011, s/n 5536, 0 to 20000 ft.lb. Torque Cell with TSD6500-3 s/n 20901 Instrument, NIST Traceability Reference # 500507, Calibration Date: 11/22/2021, Calibration Due Date 07/2023, Accuracy within ± 0.75 Indicated Value.

[X] TSD10KPT, s/n 202996, 0 to 10000 psi Pressure Transducer with TSD6500-3 s/n 20901 Instrument, NIST Traceability Reference # 400822, Calibration Date: 11/22/2021, Calibration Due Date 07/2023, Accuracy within ± 0.25 Indicated Value.

Calibration performed at Temperature 67°F

Relative Humidity 48%

Pressure [psi]	HYTORC Standard Torque [Lb.ft]	As Found / As Left Torque [Lb.ft]	MIN Torque [Lb.ft]	MAX Torque [Lb.ft]
1,500	196	200 ✓	190	201
2,000	261	264 ✓	253	268
3,000	395	398 ✓	383	406
4,000	525	534 ✓	509	540
5,000	655	668 ✓	635	674
6,000	780	800 ✓	756	803
7,000	907	926 ✓	879	934
8,000	1,031	1,052 ✓	1,000	1,061
9,000	1,157	1,184 ✓	1,122	1,191
10,000	1,284	1,312 ✓	1,245	1,322

AS FOUND / AS LEFT tool AVANTI 1 serial# A1TR2109-225 is WITHIN STANDARDS OF ACCURACY

HYTORC-Hustach

ZA DE MONTEPY

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CALIBRATED BY: DERRICK McFADDEN

APPROVED BY: Christopher Petrich

Lab Manager

CERTIFICATE #: 1-20K-230508132410

CALIBRATION DATE: May 8, 2023

UNCERTAINTY: 0.6% of reading

DATE TOOL PUT IN SERVICE: 16/11/2023

Calibrations are in accordance with requirements of ISO/IEC 17025:2017. Calibration results were obtained using equipment capable of producing results that are traceable to NIST and through NIST to the International System of Units (SI). Expanded uncertainties expressed at approximately 95% confidence levels using a coverage factor K=2 was accounted for in making compliance/non compliance decision with specification, and are available upon request within 30 days of calibration date. Results are valid only to the above item calibrated at the time of test. This certificate shall not be reproduced except in full without the written permission of HYTORC Division, UNEX Corporation. Pass/Fail results are based on +/- tolerance only. Many factors may cause an item to drift out of tolerance before the next scheduled calibration.