



TABLE DE CONVERSION PRESSION/COUPLE

Affectée à la clé **HY 5 MXT N° M52431-380**

avec carré de 1"1/2

Suivant constat de vérification du **10/03/2025**

Constat n° **3-20k-250310082135**

Mise en service le **23/04/2025**

Régler la pression choisie sur la pompe pour obtenir le couple souhaité.

Exemple: pour obtenir 2433Nm il faut régler la pression de la pompe à 220 bars ou 3200 PSI

PSI	BAR	Couple en Nm
1000	70	758
1200	84	909
1400	98	1061
1600	110	1206
1800	124	1357
2000	138	1508
2200	152	1659
2400	165	1809
2600	179	1977
2800	193	2129
3000	207	2281
3200	220	2433
3400	234	2585
3600	248	2739
3800	262	2891
4000	276	3043
4200	290	3195
4400	303	3347
4600	317	3501
4800	331	3653
5000	345	3805
5200	358	3957
5400	372	4109
5600	386	4273
5800	400	4425
6000	414	4578
6200	427	4730
6400	441	4883
6600	455	5032
6800	468	5185
7000	482	5337
7200	496	5490
7400	510	5642
7600	524	5769
7800	538	5920
8000	552	6072
8200	565	6224
8400	579	6376
8600	593	6523
8800	607	6674
9000	620	6826
9200	634	6978
9400	648	7129
9600	662	7243
9800	676	7394
10000	690	7545

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HYTORC

CERTIFICATE OF CALIBRATION

HYTORC Division, UNEX Corporation
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PJLA Accreditation # 66167

MANUFACTURER HYTORC
TOOL MODEL MXT 5
STATED ACCURACY $\pm 3\%$ OF HYTORC STANDARD PRESSURE/TORQUE CONVERSION CHART
TORQUE RANGE 835 to 5,590 Lb.ft PRESSURE RANGE 1,500 to 10,000 psi

SERIAL # M5TR2431-380
ASSET # N/A

PROCEDURE AND METHOD USED

319 Hydraulic Torque Tool Calibration on AKO R3.1 Version 3.1

CALIBRATION EQUIPMENT USED

Torque Specialties TORQUE MASTER Automated Hydraulic Calibration System

[X] TSD20011, s/n 6288, 0 to 20000 ft.lb. Torque Cell with TSD6500-2 s/n 20810 Instrument, NIST Traceability Reference # 401317, Calibration Date: 10/03/2022, Calibration Due Date 09/2025, Accuracy within ± 0.75 Indicated Value.

[X] TSD10KPT, s/n 136109, 0 to 10000 psi Pressure Transducer with TSD6500-2 s/n 20810 Instrument, NIST Traceability Reference # 401318, Calibration Date: 10/03/2022, Calibration Due Date 09/2025, Accuracy within ± 0.25 Indicated Value.

Calibration performed at Temperature 68°F

Relative Humidity 27%

Pressure [psi]	HYTORC Standard Torque [Lb.ft]	As Found / As Left Torque [Lb.ft]	MIN Torque [Lb.ft]	MAX Torque [Lb.ft]
1,500	835	838 ✓	809	860
2,000	1,110	1,112 ✓	1,076	1,143
3,000	1,670	1,682 ✓	1,619	1,720
4,000	2,230	2,244 ✓	2,163	2,296
5,000	2,790	2,806 ✓	2,706	2,873
6,000	3,350	3,376 ✓	3,249	3,450
7,000	3,910	3,936 ✓	3,792	4,027
8,000	4,470	4,478 ✓	4,335	4,604
9,000	5,030	5,034 ✓	4,879	5,180
10,000	5,590	5,564 ✓	5,422	5,757

AS FOUND / AS LEFT tool MXT 5 serial# M5TR2431-380 is WITHIN STANDARDS OF ACCURACY

CALIBRATED BY: Pedro Paez

CERTIFICATE #: 3-20K-250310082135

HYTORC-Hustach

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APPROVED BY: Pietro Barcia

Lab Manager

CALIBRATION DATE: March 10, 2025

ISSUE DATE: March 10, 2025

UNCERTAINTY: 0.6% of reading

DATE TOOL PUT IN SERVICE: 23/04/2025

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.

(created with HY-Cal v1.4.2)