



TORQUE CALIBRATION SYSTEM

HYDRAULIC TORQUE WRENCH TOOLS ARE A WIDELY ACCEPTED AND USED DEVICE FOR TIGHTENING AND LOOSENING MEDIUM TO LARGE BOLTS WITH UP TO 72,000 NM OF TORQUE.

The range of applications is very diverse and hydraulic torque wrench tools can be seen in operation in almost every part of industry. Many of these applications are of a critical nature and demand a tool that is not only accurate and reliable, but also certified to be accurate. To ensure all Durapac TW and LPC-Series torque wrenches meet our clients high expectations each tool is supplied with a calibration certificate of accuracy that is traceable to international standards. Each test is performed on a calibration rig that has an accuracy of 0.1% and the tool serial number is cross referenced to the test certificate.



CERTIFICATE OF ACCURACY

BELOW IS A SAMPLE CERTIFICATE THAT IS TRACEABLE TO INTERNATIONAL STANDARDS. ALL TW & LPC HYDRAULIC TORQUE WRENCHES ARE SUPPLIED WITH A CERTIFICATE OF ACCURACY.

ABSOLUTE EQUIPMENT PTY LTD
 ABN 89 135 679 195
 27186 GRANITE ST
 GEEBUNG QLD 4034
 TEL: (07) 3865 4006
 FAX: (07) 3102 6288

Customer: HURLY GOLD MINE
 Address:
 City/State/Zip: ALICE SPRINGS, NT 0870
 Country: AUSTRALIA

Model No: DURAPAC TW3
 Description: HYDRAULIC TORQUE WRENCH

Testing Procedure: Timing is performed by attaching the above ref torque wrench and Equipment used to AKD model TSD 2005-HT Hydraulic Pneumatic torque wrench test equipment in accordance with Specialised Force test procedure.

Test equipment used:
 TSD 20011 Torque Transducer s/n 3885, 0.1 % IV accuracy, test calibration certificate # 129620 dated 14/02/2010 with
 TSD 9000-1 Torque Indicator s/n 42623, 0.1 % IV accuracy, test calibration certificate # 128620 dated 14/02/2010.
 TSD 100PT Pressure Transducer s/n 64815, 0.1 % IV accuracy, test calibration certificate # 134881 dated 10/4/2007 with
 TSD 6006-2 Pressure Indicator s/n 28073, 0.1 % IV accuracy, test calibration certificate # 134881 dated 10/4/2007
 Traceability to NIST (National Institute of Standards and Technology) # 62236936-03

Comments:
 DO NOT EXCEED MAXIMUM DESIGN TORQUE CAPACITY OF 4512 NM

CERT: 133
 Test Date: 12/05/2010
 Customer PO#: 5643
 Serial #: 8325
 Primary Standard: PSI
 Operator: RENE BERNS
 Secondary Standard: NM

Tested and Certified By:
 Date Signed: 12/05/2010

Certificate of Accuracy

SETTING	PRIMARY	SECONDARY
1000	1000	450
2000	2000	924
3000	3000	1324
4000	4000	1760
5000	5000	2242
6000	6000	2680
7000	7000	3132
8000	8000	3582
9000	9000	4048
10000	10000	4488

ABSOLUTE EQUIPMENT PTY LTD
 ABN 89 135 679 195
 27186 GRANITE ST
 GEEBUNG QLD 4034
 TEL: (07) 3865 4006
 FAX: (07) 3102 6288

Certificate of Accuracy

PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY
1000.00	416.00	2000.00	834.00	3000.00	1254.00	4000.00	1770.00	6000.00	2541.00
1100.00	453.40	2100.00	895.00	3100.00	1376.00	4100.00	1917.00	6100.00	2789.00
1200.00	490.80	2200.00	956.00	3200.00	1502.00	4200.00	2064.00	6200.00	3037.00
1300.00	528.20	2300.00	1017.00	3300.00	1628.00	4300.00	2211.00	6300.00	3285.00
1400.00	565.60	2400.00	1078.00	3400.00	1754.00	4400.00	2358.00	6400.00	3533.00
1500.00	603.00	2500.00	1139.00	3500.00	1880.00	4500.00	2505.00	6500.00	3781.00
1600.00	640.40	2600.00	1200.00	3600.00	2006.00	4600.00	2652.00	6600.00	4029.00
1700.00	677.80	2700.00	1261.00	3700.00	2132.00	4700.00	2799.00	6700.00	4277.00
1800.00	715.20	2800.00	1322.00	3800.00	2258.00	4800.00	2946.00	6800.00	4525.00
1900.00	752.60	2900.00	1383.00	3900.00	2384.00	4900.00	3093.00	6900.00	4773.00
2000.00	790.00	3000.00	1444.00	4000.00	2510.00	5000.00	3240.00	7000.00	5021.00
2100.00	827.40	3100.00	1505.00	4100.00	2636.00	5100.00	3387.00	7100.00	5269.00
2200.00	864.80	3200.00	1566.00	4200.00	2762.00	5200.00	3534.00	7200.00	5517.00
2300.00	902.20	3300.00	1627.00	4300.00	2888.00	5300.00	3681.00	7300.00	5765.00
2400.00	939.60	3400.00	1688.00	4400.00	3014.00	5400.00	3828.00	7400.00	6013.00
2500.00	977.00	3500.00	1749.00	4500.00	3140.00	5500.00	3975.00	7500.00	6261.00
2600.00	1014.40	3600.00	1810.00	4600.00	3266.00	5600.00	4122.00	7600.00	6509.00
2700.00	1051.80	3700.00	1871.00	4700.00	3392.00	5700.00	4269.00	7700.00	6757.00
2800.00	1089.20	3800.00	1932.00	4800.00	3518.00	5800.00	4416.00	7800.00	7005.00
2900.00	1126.60	3900.00	1993.00	4900.00	3644.00	5900.00	4563.00	7900.00	7253.00
3000.00	1164.00	4000.00	2054.00	5000.00	3770.00	6000.00	4710.00	8000.00	7501.00
3100.00	1201.40	4100.00	2115.00	5100.00	3896.00	6100.00	4857.00	8100.00	7749.00
3200.00	1238.80	4200.00	2176.00	5200.00	4022.00	6200.00	5004.00	8200.00	7997.00
3300.00	1276.20	4300.00	2237.00	5300.00	4148.00	6300.00	5151.00	8300.00	8245.00
3400.00	1313.60	4400.00	2298.00	5400.00	4274.00	6400.00	5298.00	8400.00	8493.00
3500.00	1351.00	4500.00	2359.00	5500.00	4400.00	6500.00	5445.00	8500.00	8741.00
3600.00	1388.40	4600.00	2420.00	5600.00	4526.00	6600.00	5592.00	8600.00	8989.00
3700.00	1425.80	4700.00	2481.00	5700.00	4652.00	6700.00	5739.00	8700.00	9237.00
3800.00	1463.20	4800.00	2542.00	5800.00	4778.00	6800.00	5886.00	8800.00	9485.00
3900.00	1500.60	4900.00	2603.00	5900.00	4904.00	6900.00	6033.00	8900.00	9733.00
4000.00	1538.00	5000.00	2664.00	6000.00	5030.00	7000.00	6180.00	9000.00	9981.00
4100.00	1575.40	5100.00	2725.00	6100.00	5156.00	7100.00	6327.00	9100.00	10229.00
4200.00	1612.80	5200.00	2786.00	6200.00	5282.00	7200.00	6474.00	9200.00	10477.00
4300.00	1650.20	5300.00	2847.00	6300.00	5408.00	7300.00	6621.00	9300.00	10725.00
4400.00	1687.60	5400.00	2908.00	6400.00	5534.00	7400.00	6768.00	9400.00	10973.00
4500.00	1725.00	5500.00	2969.00	6500.00	5660.00	7500.00	6915.00	9500.00	11221.00
4600.00	1762.40	5600.00	3030.00	6600.00	5786.00	7600.00	7062.00	9600.00	11469.00
4700.00	1799.80	5700.00	3091.00	6700.00	5912.00	7700.00	7209.00	9700.00	11717.00
4800.00	1837.20	5800.00	3152.00	6800.00	6038.00	7800.00	7356.00	9800.00	11965.00
4900.00	1874.60	5900.00	3213.00	6900.00	6164.00	7900.00	7503.00	9900.00	12213.00
5000.00	1912.00	6000.00	3274.00	7000.00	6290.00	8000.00	7650.00	10000.00	12461.00

Comments:
 DO NOT EXCEED MAXIMUM DESIGN TORQUE CAPACITY OF 4512 NM

Customer Address: HURLY GOLD MINE
 City/State/Zip: ALICE SPRINGS, NT 0870
 Country: AUSTRALIA

Temperature: NA
 Humidity: NA

Wrench ID: 8325
 CERT #: 133

Test Date: 12/05/10
 Operator: RENE BERNS
 Wrench Due Date: 12/05/11

Tested and Certified By:
 Date Signed: 12/05/2010

Print Date: 12/05/2010
**** THIS CERTIFICATE MAY BE REPRODUCED ONLY IN ITS ENTIRETY ****