

SQUARE DRIVE HYDRAULIC TORQUE WRENCHES

BOLTING SOLUTIONS

T

REVERSIBLE SQUARE DRIVE

for tightening and loosening applications

360° X 180° SWIVEL

with screw couplings

ADJUSTABLE REMOVABLE CARRY HANDLE

included with TW3
to TW10 models for
enhanced safety
and efficiency



All wrenches supplied with
a calibration certificate
of accuracy, traceable to
international standards.
Refer to Calibration &
Certification section at the
rear of the catalogue.

THE **TW-SERIES** SQUARE DRIVE HYDRAULIC TORQUE WRENCHES ARE COMPACT, EASY TO USE AND VERSATILE.

The titanium-aluminium alloy and super high strength steel alloy construction means increased strength and durability while minimising weight. TW-Series torque wrenches are available in 3/4" to 2 1/2" square drive models, with a torque range from 112 to 72,000 Newton Metres (82 to 53,280 ft/lb). All models are fitted with a 360° x 180° swivel coupler and screw couplings. A convenient Carry Case is included for models TW07 to TW10.

TITANIUM ALUMINIUM ALLOY

and super high strength
steel construction

ACCURACY

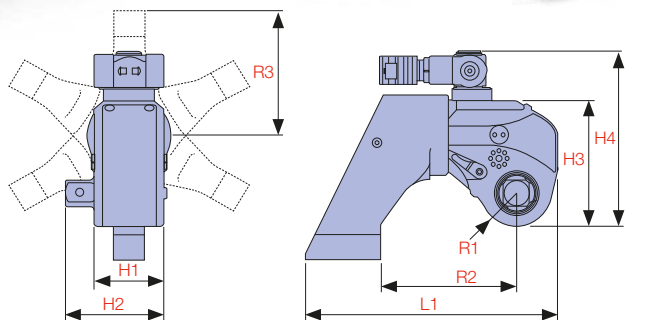
within + / - 3%

TW8



EXTENDED REACTION ARM

available as an optional extra



Model No.	Square Drive	Range of Torque @ 700 bar (Nm)	Range of Torque @ 700 bar (ft/lb)	Bolt Size Range (mm)	L1	H1	H2	H3	H4	R1	R2	R3	Weight (kg)
					(mm)								
TW07	¾"	112 - 1,120	82 - 829	14 - 30	139.3	42	65.8	76.2	119.0	20.5	68.3	76.0	1.6
TW1	¾"	183 - 1,837	135 - 1,359	16 - 36	173.0	50	71.9	95.5	138.3	26.0	84.5	91.5	2.6
TW3	1"	451 - 4,512	334 - 3,346	22 - 48	244.0	68	95.3	127.0	176.5	34.0	131.3	125.8	5.4
TW5	1-1/2"	752 - 7,528	557 - 5,571	27 - 56	285.5	80	122.9	149.0	198.5	39.0	158.0	141.0	8.7
TW8	1-1/2"	1,078 - 10,780	797 - 7,977	30 - 64	311.0	90	130.5	167.0	216.5	47.0	171.0	165.0	11.7
TW10	1-1/2"	1,551 - 15,516	1,148 - 11,482	36 - 72	339.7	100	140.8	182.0	231.5	51.0	174.0	170.3	14.8
TW15	2-1/2"	2,063 - 20,627	1,521 - 15,213	39 - 80	395.0	110	178.7	200.4	249.9	55.0	222.5	201.5	22.0
TW20	2-1/2"	2,666 - 26,664	1,973 - 19,731	42 - 90	450.8	120	188.2	220.0	269.5	59.0	250.5	216.5	27.8
TW25	2-1/2"	3,472 - 34,725	2,569 - 25,697	48 - 100	459.2	137	199.8	247.0	296.5	66.0	250.5	224.1	35.5
TW35	2-1/2"	4,866 - 48,666	3,601 - 36,013	64 - 120	495.5	153	215.6	282.0	331.5	77.0	279.0	237.6	49.4
TW50	2-1/2"	7,200 - 72,000	5,328 - 53,280	72 - 125	418.5	160	222.6	290.5	340.0	81.0	258.5	258.0	90.0

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THE **DET & DAT-SERIES** TORQUE WRENCH POWER UNITS ARE PERFECTLY DESIGNED FOR OPERATING THE TW AND LPC –SERIES HYDRAULIC TORQUE WRENCHES.

They have a three stage pump for faster operation under load and incorporate a hydraulic oil cooler providing cool operation under continuous use. A 6 M remote hand pendant is standard. Standard (-1114) models can operate one or two tools at one time due to the multi outlet pump block. The DET-1114-4 four outlet version allows 1 - 4 tools to be operated at one time.

OIL COOLER

electric fan operated for continuous duty operation

ROLL CAGE

for portability and protection

3 STAGE POWER UNIT

for increased speed under load

6 M REMOTE PENDANT

through a 24 Volt transformer for safety. Incorporates motor ON/OFF button and ADV/AUTO RETRACT button

ELECTRIC MOTOR

1.5 kW/230 Volt 50Hz induction motor 9.2 amp

LIQUID FILLED PRESSURE GAUGE

has 1% accuracy and can be recalibrated. Scale is MPa/psi

ADJUSTABLE TORQUE CONTROL

for accurate torque settings

MULTIPLE TOOL OUTLETS

for operating one or two tools simultaneously

DET-1114-4

for operating 1 - 4 tools simultaneously



DET-1114



Model No.	Motor	Pressure Rating (bar)	Flow (Lpm)			Oil Capacity (L)	Dry Weight (kg)	Dimensions W x L x H (mm)
			1st Stage 0-100 bar	2nd Stage 100-250 bar	3rd Stage 250-700 bar			
DAT-1114	2.7 kW Air	700	7.0	1.6	0.8	7.0	31.5	340 x 530 x 500
DET-1114	230 Volt / 1 Ph. / 50 Hz†	700	8.5	2.2	1.1	5.5	28.0	
DET-1114-4	230 Volt / 1 Ph. / 50 Hz†	700	8.5	2.2	1.1	5.5	28.0	

† Standard motor supplied is 230V, 50 Hz, should 115V, 60 Hz be required; add "-115V" to the end of the model number, eg. "DET-1114-4-115V"

LIQUID FILLED PRESSURE GAUGE

has 1% accuracy and can be recalibrated. Scale is MPa/psi

AIR MOTOR

2.7 kW Ingersoll Rand®

ADJUSTABLE TORQUE CONTROL

for accurate torque settings

MULTIPLE TOOL OUTLETS

for operating one or two tools simultaneously

ROLL CAGE

for portability and protection

AIR FILTER/ LUBRICATOR

for efficient operation

3 STAGE PUMP

for increased speed under load

OIL COOLER

keeps oil cool during heavy duty operation

6 M REMOTE PENDANT

incorporates motor ON/OFF button and ADV/AUTO RETRACT button

DAT-1114



POWER REQUIREMENT

Electric 230 Volt 50 Hz
Air 1,400 Lpm @ 6.2 bar

FLOW

3 stage

MAXIMUM OPERATING PRESSURE

700 bar

Torque Wrench Hoses

Model No.	Length (m)	Description
TWH-04	4	Twin hose set to suit torque wrenches complete with male and female screw couplers at both ends. 700 bar working pressure. 2,800 bar min. burst.
TWH-06	6	
TWH-10	10	
TWH-15	15	



Hose burst sleeve available. Consult Durapac for further information

The **DET & DAT** hydraulic torque wrench power units are supplied with an oil cooler to allow continuous operation of hydraulic torque wrenches



Torque Wrench Couplings

Model No.	Thread	Description	Suits Tool Model No.
CH-2	1/8"-NPT Male	Male half screw coupling complete with metal dust cap*	TW07, TW1, LPC2
CR-2	1/8"-NPT Male	Female half screw coupling complete with metal dust cap*	TW07, TW1, LPC2
CS-2	1/8"-NPT Male	Coupling set with metal dust caps* includes CH-2 and CR-2	TW07, TW1, LPC2
CH-4	1/4"-NPT Female	Male half screw coupling complete with metal dust cap*	TW3 THROUGH TW50 LPC4 THROUGH LPC30
CR-4	1/4"-NPT Male	Female half screw coupling complete with metal dust cap*	TW3 THROUGH TW50 LPC4 THROUGH LPC30
CS-4		Coupling set with metal dust caps* includes CH-4 and CR-4	TW3 THROUGH TW50 LPC4 THROUGH LPC30

Snap couplings available. Consult Durapac for further information

* Dust cap/s not shown



CH-2



CH-4



CR-2



CR-4



CS-2



CS-4

TORQUE WRENCH CALIBRATION



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 69 135 679 195
 73 NORTHLINK PL
 VIRGINIA QLD 4014
 TEL: (07) 3865 4006

Certificate of Accuracy



PRIMARY	SECONDARY
1000.00	496.00
1100.00	533.40
1200.00	576.80
1300.00	620.20
1400.00	663.60
1500.00	707.00
1600.00	750.40
1700.00	793.80
1800.00	837.20
1900.00	880.60

PRIMARY	SECONDARY
2000.00	924.00
2100.00	965.00
2200.00	1006.00
2300.00	1047.00
2400.00	1088.00
2500.00	1129.00
2600.00	1170.00
2700.00	1211.00
2800.00	1252.00
2900.00	1293.00

PRIMARY	SECONDARY
3000.00	1334.00
3100.00	1379.80
3200.00	1425.60
3300.00	1471.40
3400.00	1517.20
3500.00	1563.00
3600.00	1608.80
3700.00	1654.60
3800.00	1700.40
3900.00	1746.20

PRIMARY	SECONDARY
4000.00	1792.00
4100.00	1837.00
4200.00	1882.00
4300.00	1927.00
4400.00	1972.00
4500.00	2017.00
4600.00	2062.00
4700.00	2107.00
4800.00	2152.00
4900.00	2197.00

PRIMARY	SECONDARY
5000.00	2242.00
5100.00	2285.00
5200.00	2329.00
5300.00	2373.40
5400.00	2417.20
5500.00	2461.00
5600.00	2504.80
5700.00	2548.60
5800.00	2592.40
5900.00	2636.20

P.S.I. NM

PRIMARY	SECONDARY
6000.00	2680.00
6100.00	2725.20
6200.00	2770.40
6300.00	2815.60
6400.00	2860.80
6500.00	2906.00
6600.00	2951.20
6700.00	2996.40
6800.00	3041.60
6900.00	3086.80

P.S.I. NM

PRIMARY	SECONDARY
7000.00	3132.00
7100.00	3177.60
7200.00	3223.20
7300.00	3268.80
7400.00	3314.40
7500.00	3357.00
7600.00	3402.00
7700.00	3447.00
7800.00	3492.00
7900.00	3537.00

P.S.I. NM

PRIMARY	SECONDARY
8000.00	3582.00
8100.00	3628.40
8200.00	3674.80
8300.00	3721.20
8400.00	3767.60
8500.00	3814.00
8600.00	3860.40
8700.00	3906.80
8800.00	3953.20
8900.00	3999.60

P.S.I. NM

PRIMARY	SECONDARY
9000.00	4046.00
9100.00	4090.20
9200.00	4134.40
9300.00	4178.60
9400.00	4222.80
9500.00	4267.00
9600.00	4311.20
9700.00	4355.40
9800.00	4399.60
9900.00	4443.80

P.S.I. NM

PRIMARY	SECONDARY
10000.00	4488.00

Comments

DO NOT EXCEED MAXIMUM DESIGN TORQUE
 CAPACITY OF 4512 NM

Customer Address

HURLY GOLD MINE

Temperature

N/A

City/State/Zip Country

ALICE SPRINGS, NT 0870
AUSTRALIA

Humidity

N/A

Test Date Operator

ABSOLUTE EQUIPMENT PTY LTD

ABN 69 135 679 195

73 NORTHLINK PL

VIRGINIA QLD 4014

TEL: (07) 3865 4006

Customer HURLY GOLD MINE
Address

City/State/Zip ALICE SPRINGS, NT 0870
Country AUSTRALIA

Model No DURAPAC TW3
Description HYDRAULIC TORQUE WRENCH

Certificate of Accuracy

DURAPAC

Testing Procedure Testing is performed by attaching the above ref torque wrench and Equipment used to AKO model TSD 2003S-HT Hydraulic / Pneumatic torque wrench test equipment in accordance with Specialised Force test procedure.

Test equipment used:-

TSD 20011 Torque Transducer s/n 3650, 0.1 % IV accuracy,

last calibration certificate # 128620 dated 14/3/2006 with

TSD 6000-1 Torque Indicator s/n 40823, 0.1 % IV accuracy,

last calibration certificate # 128620 dated 14/3/2006,

TSD 10KPT Pressure Transducer s/n 44815, 0.1 % IV accuracy,

last calibration certificate # 134681 dated 16/4/2007 with

TSD 6000-2 Pressure Indicator s/n 28073, 0.1 % IV accuracy,

last calibration certificate # 134681 dated 16/4/2007

Traceability to NIST (National Institute of Standards and

Technology) # 822/26926-02.

AsFound CW

PRIMARY	SECONDARY
1000	1000
2000	1500
3000	2000
4000	2500
5000	3000
6000	3500
7000	4000
8000	4500
9000	5000
10000	5500

SETTING PRIMARY SECONDARY

1000	1000	490
2000	2000	924
3000	3000	1334
4000	4000	1792
5000	5000	2242
6000	6000	2680
7000	7000	3132
8000	8000	3582
9000	9000	4046
10000	10000	4488

Comments

DO NOT EXCEED MAXIMUM DESIGN TORQUE

CAPACITY OF 4512 NM

CERT 133
Test Date 12/05/2020
Customer PO# 5643
Serial # 8325
Primary Standard PSI
Operator RENE BERNIS
Secondary Standard N/A

Tested and Certified By: 
Date Signed: 12/05/2020

Print Date: 12/05/2020

**** THIS CERTIFICATE MAY BE REPRODUCED ONLY IN ITS ENTIRETY ****