TORQUEING POWER SOLUTIONS

TPS®

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SAFETY. QUALITY. TECHNICAL EXCELLENCE.

TORQUEING POWER SOLUTIONS

APPLICATIONS

OIL & GAS

PETROCHEMICAL

MINING

WINDMILL











TORQUEING POWER SOLUTIONS

TABLE OF CONTENTS

#	CONTENTS	PAGE No.
1	TOOLS SELECTION GUIDE	01 – 02
2	TS-SERIES (SQUARE DRIVE HYDRAULIC TORQUE WRENCH)	03
3	TLP-SERIES (LOW PROFILE HEX DRIVE TORQUE WRENCH)	04
4	TFP-SERIES (FLAT PROFILE HEX DRIVE TORQUE WRENCH)	05
5	TST-SERIES (SLIM HEX DRIVE TORQUE WRENCH)	06
6	PHP-02 (PNEUMATIC TORQUEING PUMP)	07
7	TPE-SERIES (ELECTRIC TORQUEING PUMP)	08
8	TSRT-SERIES (SPRING RETURN TENSIONERS)	09
9	BTW-SERIES (BATTERY TORQUE WRENCH)	10
10	PTW-SERIES (TORQUING PNEUMATIC WRENCH)	11
11	STW-SERIES (SERVO TECHNOLOGY WRENCH)	12
12	HNS-SERIES (HYDRAULIC NUT SPLITTER)	13 – 14
13	FS-SERIES (FLANGE SPREADER)	15 – 16
14	TM-SERIES (MANUAL TORQUE WRENCH)	17 – 18
15	S-SERIES & C-SERIES (SMART SOCKET)	19 – 20
16	BOLTING ACCESSORIES	21 – 22
17	TORQUEING CHARTS	23 - 32

USEFUL CONVERSION FACTORS

Pressure:
1 Bar = 14.5 psi = 1.02kg/cm2
1 psi = 0.0689 Bar = 0.00689 Mpa
1 Mpa = 10 Bar = 145 psi
1 N/mm2 = 10 bar

Torque:
1 Nm = 0.738 lbs. ft
1 Ft.lb = 1.3558 Nm
1 Kgm = 7.233 ft.lbs
1 ft.lbs = 0.1383 kgm

TORQUEING POWER SOLUTIONS

TOOL SELECTION GUIDE

TS SERIES – TOOL SELECTION GUIDE

TS Series	Model	Square Drive	Torque	119	315	540	738	1097	1416	1821	2407	3448	5036	1280	3148	5397	7586	10985	14137	19230	25184	34484	50361	Weight (kg)
	TS-1	3/4"	(ft.lbs)																					2
	TS-3	1"	(ft.lbs)																					4
	TS-5	1-1/2"	(ft.lbs)																					7
	TS-8	1-1/2"	(ft.lbs)																					10.6
	TS-10	1-1/2"	(ft.lbs)																					12.9
	TS-15	2-1/2"	(ft.lbs)																					20
	TS-20	2-1/2"	(ft.lbs)																					25
	TS-25	2-1/2"	(ft.lbs)																					33.8
	TS-35	2-1/2"	(ft.lbs)																					43
	TS-50	2-1/2"	(ft.lbs)																					52

TLP SERIES (POWERHEADS) – TOOL SELECTION GUIDE

TLP Series	Model	Torque	243	579	1142	2009	2790	4578	1686	3892	8150	13400	19099	30985	Weight (kg)
	TLP-2	(ft.lbs)													2.2
	TLP-4	(ft.lbs)													5
	TLP-8	(ft.lbs)													9.6
	TLP-13	(ft.lbs)													16.9
	TLP-19	(ft.lbs)													22.9
	TLP-30	(ft.lbs)													38

TLP SERIES (HEX LINK) – TOOL SELECTION GUIDE

TLP Link	Model	Nut Range (mm)	27	36	50	60	70	75	85	100	120	130	155
	TLP-2	27-60											
	TLP-4	36-85											
	TLP-8	50-100											
	TLP-13	70-120											
	TLP-19	75-130											
	TLP-30	100-155											



TFP SERIES – TOOL SELECTION GUIDE

TFP Series	TFP-1	TFP-2	TFP-4	TFP-5	TFP-8	TFP-12	TFP-14	TFP-18	TFP-22	TFP-30	TFP-38
Torque Min (Ft.lb)	166	221	395	518	769	1241	1457	1804	2212	3101	4016
Torque Max (Ft.lb)	1643	2212	3957	5185	8157	12856	14590	18040	22569	31011	38595
Torque Min (Nm)	225	300	536	703	1043	1683	1976	2446	3000	4205	5446
Torque Max (Nm)	2228	3000	5366	7030	11060	17431	19782	24459	30600	42046	52328
HEX (mm)	19-60	27-65	36-85	41-85	46-100	65-120	75-130	75-135	95-150	100-165	130-180
Approx. Weight (kg)	2.2	3.5	5	7	9.6	16.9	19	22.9	28.5	38	48.5



TST SERIES – TOOL SELECTION GUIDE

TST-Series	TST-2	TST-2	TST-4	TST-4	TST-9
Nut Range (mm)	27 – 46	50 – 60	27 - 65	70 – 80	70 – 90
Nut Range (inch)	1.1/16" - 1.13/16"	2" – 2.3/8"	1.5/8" – 2.9/16"	2.3/4" – 3.1/8"	2.3/4" – 3.1/2"
Torque Min (Ft.lb)	129	158	362	396	816
Torque Max (Ft.lb)	1450	1643	4056	4260	9373
Torque Min (Nm)	175	215	491	538	1106
Torque Max (Nm)	1966	2228	5500	5777	12700
Cylinder Weight (kg)	1.9	1.9	2.9	2.9	6.6
Link Weight (kg)	1	1.1	2.8	2.9	7.1

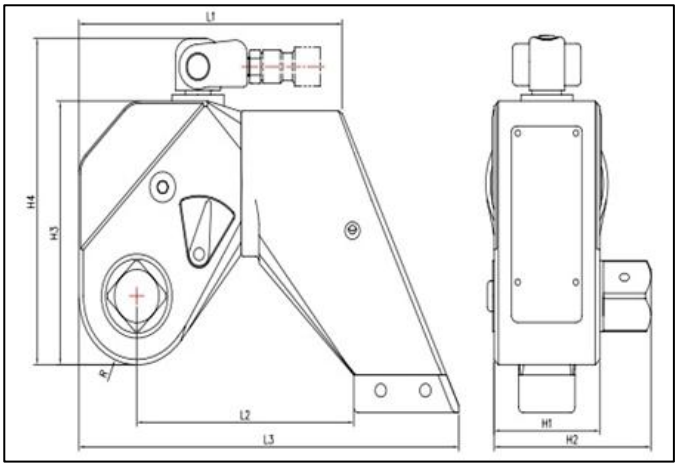
SQUARE DRIVE HYDRAULIC TORQUE WRENCH







Brand:	Torqueing Power Solutions (TPS)
Series:	TS (Torque Wrench Square Drive)
Material:	Aluminum Titanium Alloy (7075) & High Strength Alloy Steel
Accuracy:	+/- 3%
Max Pressure:	700 bar / 10,000 PSI
Advantages:	360° x 180° uni-swivel hose coupling
	Anti-Reverse Drive Pawl
	Easy to handle
	Powerful, Accurate, Dependable, Durable



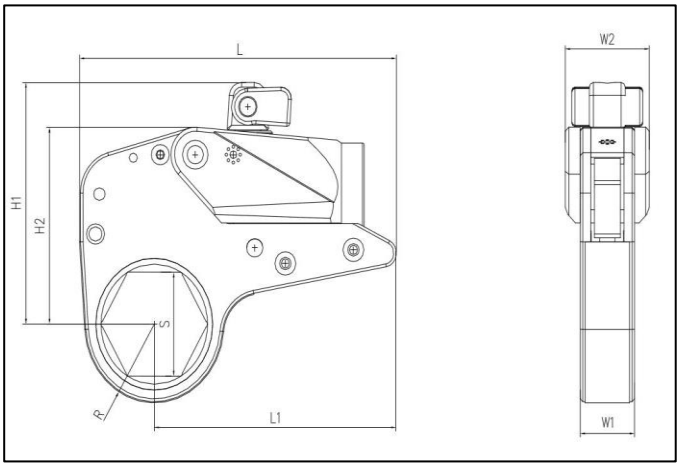
TS-Series	TS-1	TS-3	TS-5	TS-8	TS-10	TS-15	TS-20	TS-25	TS-35	TS-50
Torque Min (Ft.lb)	119	315	540	738	1097	1416	1821	2407	3448	5036
Torque Max (Ft.lb)	1280	3148	5397	7586	10985	14137	19230	25184	34484	50361
Torque Min (Nm)	161	427	732	1001	1487	1920	2469	3263	4675	6828
Torque Max (Nm)	1735	4268	7317	10285	14894	19167	26072	34145	46754	68280
Square Drive (in)	¾”	1”	1.1/2”	1.1/2”	1.1/2”	2.1/2”	2.1/2”	2.1/2”	2.1/2”	2.1/2”
L1 (mm)	130	170	202	228	237	273	287	323	351	376
L2 (mm)	102	140	160	184	192	223	248	256	271	295
L3 (mm)	182	249	286	326	336	391	433	464	494	528
H1 (mm)	52	70	81	90	100	110	120	138	153	162
H2 (mm)	77	98	125	134	144	164	187	206	217	226
H3 (mm)	96	127	149	172	181	206	221	258	279	291
H4 (mm)	133	165	184	207	216	241	256	231	315	326
R (mm)	25.8	34.8	39.8	46.8	50.8	56.8	59.8	70.8	76.8	78.8
Weight (kg)	2	4	7	10.6	12.9	20	25	33.8	43	52

LOW PROFILE HEX DRIVE TORQUE WRENCH



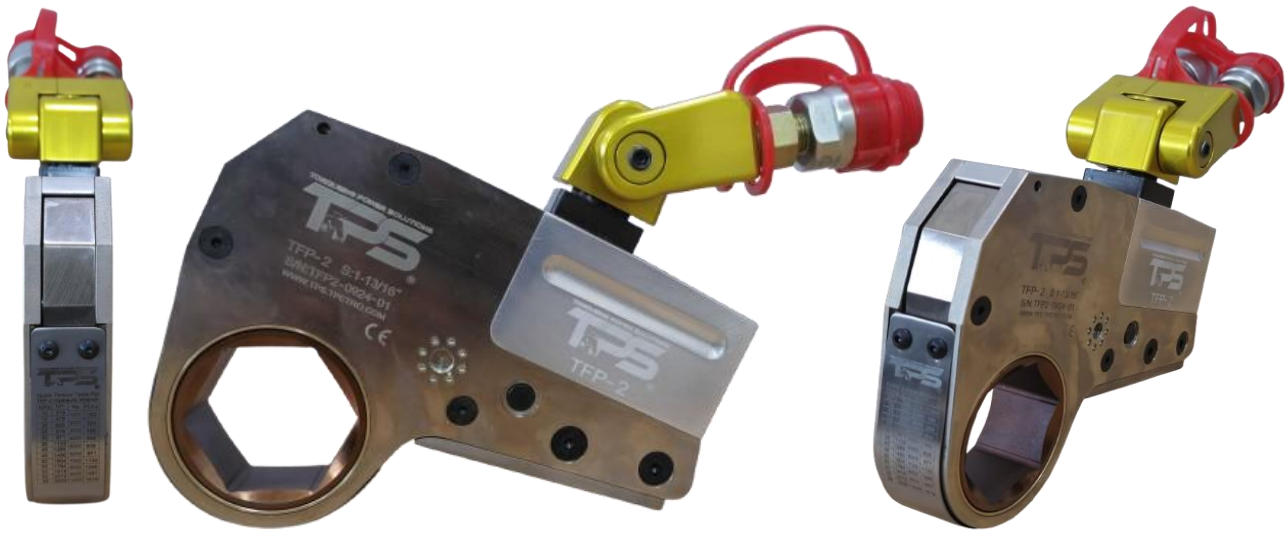


Brand:	Torqueing Power Solutions (TPS)
Series:	TLP (Low Profile Hex Drive)
Material:	Aluminum-Titanium Alloy (7075) & High Strength Alloy Steel
Accuracy:	+/- 3%
Max Pressure:	700 bar / 10,000 PSI
Advantages:	360° x 180° uni-swivel hose coupling
	Quick change ratchet link
	Anti-reverse Drive Pawl
	Powerful, Accurate, Dependable, Durable

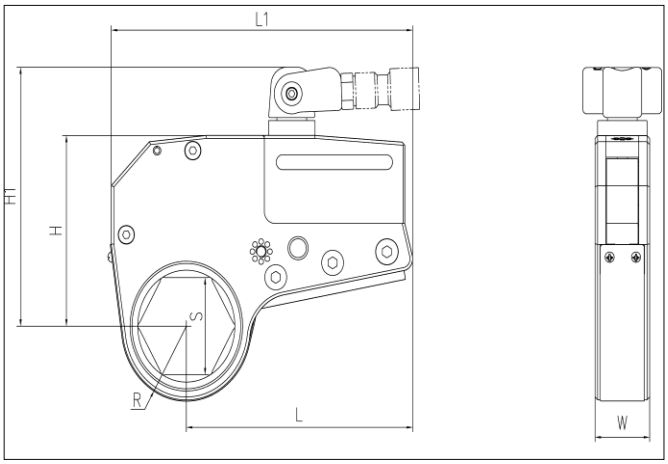


TLP-Series	TLP-2	TLP-4	TLP-8	TLP-13	TLP-19	TLP-30
Torque Min (Ft.lb)	243	579	1142	2009	2790	4578
Torque Max (Ft.lb)	1686	3892	8150	13400	19099	30985
Torque Min (Nm)	329	785	1548	2724	3783	6207
Torque Max (Nm)	2286	5277	11050	18168	25895	42010
Nut-Range (MM)	27-60	36-85	50-100	70-120	75-130	100-155
L (mm)	182	247	308	372	420	494
L1 (mm)	132	189	236	285	321	380
H1 (mm)	132	166	200	238	264	306
H2 (mm)	102	136	170	204	230	273
W1 (mm)	31.9	42.4	53	63.6	71.7	84.5
W2 (mm)	49.3	65.6	82.1	98.4	110.5	131
R (mm)	26-45	34-62	45-74	59-88	65-97	91-120
Weight (Kg)	2.2	5	9.6	16.9	22.9	38

FLAT PROFILE HEX DRIVE TORQUE WRENCH



Brand:	Torqueing Power Solutions (TPS)
Series:	TFP (Flat Profile Hex Drive)
Material:	Aluminum-Titanium Alloy (7075) & High Strength Alloy Steel
Accuracy:	+/- 3%
Max Pressure:	700 bar / 10,000 PSI
Advantages:	360° x 180° uni-swivel hose coupling
	Quick change ratchet link
	Anti-reverse Drive Pawl
	Powerful, Accurate, Dependable, Durable



TFP Series	TFP-1	TFP-2	TFP-4	TFP-5	TFP-8	TFP-12	TFP-14	TFP-18	TFP-22	TFP-30	TFP-38
Torque Min (Ft.lb)	166	221	395	518	769	1241	1457	1804	2212	3101	4016
Torque Max (Ft.lb)	1643	2212	3957	5185	8157	12856	14590	18040	22569	31011	38595
Torque Min (Nm)	225	300	536	703	1043	1683	1976	2446	3000	4205	5446
Torque Max (Nm)	2228	3000	5366	7030	11060	17431	19782	24459	30600	42046	52328
HEX (mm)	19-60	27-65	36-85	41-85	46-100	65-120	75-130	75-135	95-150	100-165	130-180
L (mm)	135	147	175	195	224	261.5	283	297	331	347.5	389
L1 (mm)	180	195	233	258	296	349	376	396	441	461	518
H (mm)	98.4	107	128	147.5	164	202	222.5	228.5	252	267	298
H1 (mm)	144	152.8	174	195	217	255	257.5	281.5	305	320	351
W (mm)	32	38	42.2	45.5	53	64	65	73.5	79	84.5	92
R (mm)	26-45	28-49	34-63	39-65	42-74	56-88	62-93	65-100	79-111	83-120	104-133
Approx. Weight (kg)	2.2	3.5	5	7	9.6	16.9	19	22.9	28.5	38	48.5

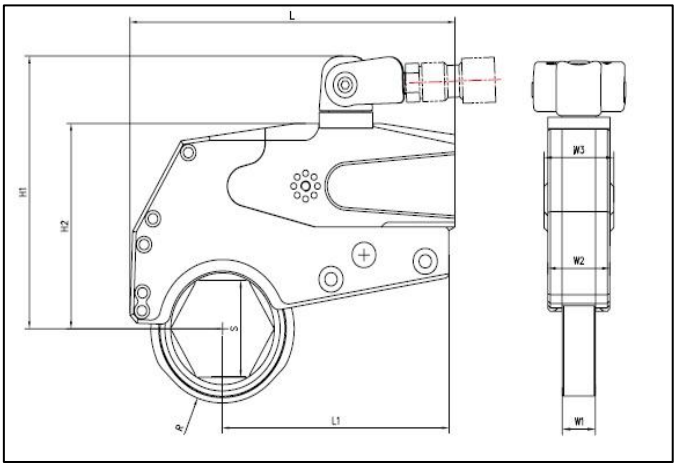
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SLIM HEX DRIVE TORQUE WRENCH





Brand:	Torqueing Power Solutions (TPS)
Series:	TST (Slim Hex Drive)
Material:	Aluminum-Titanium Alloy (7075) & High Strength Alloy Steel
Accuracy:	+/- 3%
Max Pressure:	700 bar / 10,000 PSI
Advantages:	360° x 180° uni-swivel hose coupling
	Quick change ratchet link
	Anti-reverse Drive Pawl
	Powerful, Accurate, Dependable, Durable



TST-Series	TST-2	TST-2	TST-4	TST-4	TST-9
Nut Range (mm)	27 – 46	50 – 60	27 - 65	70 – 80	70 – 90
Nut Range (inch)	1.1/16” - 1.13/16”	2” – 2.3/8”	1.5/8” – 2.9/16”	2.3/4” – 3.1/8”	2.3/4” – 3.1/2”
Torque Min (Ft.lb)	129	158	362	396	816
Torque Max (Ft.lb)	1450	1643	4056	4260	9373
Torque Min (Nm)	175	215	491	538	1106
Torque Max (Nm)	1966	2228	5500	5777	12700
R (mm)	23.75 – 34.75	37.5 – 43	34.29 – 49.1	51.82 – 57.66	58.36 – 61.41
L (mm)	158 – 161.5	163.3 – 167.7	217 – 221.5	223.3 – 227.8	296.59 -298.12
L1 (mm)	115	115	152.4	152.4	216.5
H1 (mm)	138	146	170	181	211.92
H2 (mm)	92.7	100.66	128	139	169.62
W1 (mm)	19	19	22.23	22.23	29.62
W2 (mm)	32	32	41.91	41.91	55.53
W3 (mm)	35.6	35.6	46.99	46.99	62.3
Cylinder Weight (kg)	1.9	1.9	2.9	2.9	6.6
Link Weight (kg)	1	1.1	2.8	2.9	7.1

PHP-02 SERIES

PNEUMATIC TORQUEING PUMP



Brand:	Torqueing Power Solutions (TPS)
Series:	PHP-02
Oil Tank capacity	8 Liters
Air Input	4 – 8 bar
Pressure Output	40 – 700 bar
Oil Flow	8L/min @ 60 bar 1.6L/min @ 320 bar 0.8L/min @ 700 bar
Power	1.1 KW
Max Pressure	700 Bar/10000 PSI

- **Pneumatic source driving, It is usually used in ex-proof applications, Safe, Non-heating & long term continuous working.**
- **The use of High performance pneumatic reversing valve, safe, reliable and stable.**
- **Three stage pump, Double Port.**
- **Output pressure adjustable within 40-700 Bar.**
- **The system pressure release button can release pressure when pump stops.**
- **The high quality motor allows good stability, long life, less gas consumption and light weight.**

TWINLINE HYDRAULIC HOSE







Model	Length (m)	Working Pressure (bar)	Breaking Pressure (bar)	Quick Coupling	Weight (kg)
TL04	4	700	2800	CT-901	3
TL06	6	700	2800	CT-901	4
TL09	9	700	2800	CT-901	6

ELECTRIC TORQUEING PUMP

ELECTRIC TORQUE PUMP

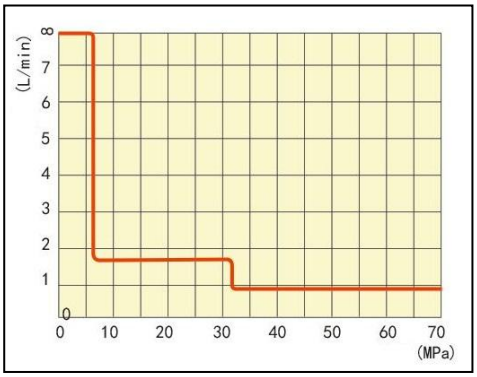


- **Max Pressure 700 bar**
- **Highly efficient air-cooling system for long time working**
- **Can be operated by remote control**

Model	Max Flow (L/Min)	Min Flow (L/Min)	Motor (KW)	Remote Cable (m)	Tank Oil (L)	Cooling System	Way of Control	Port	Weight (kg)
TPE-302	8.2	0.8	1.3	6	8	Air	Conventional	2	33

SMART ELECTRIC TORQUE PUMP



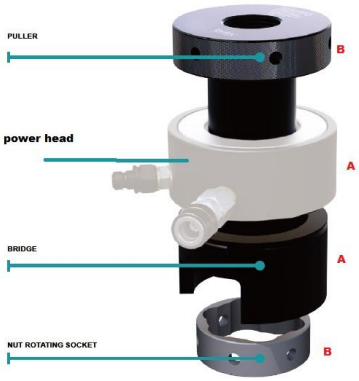


Model	Oil Flow (L/Min)	Min Flow (L/Min)	Power	Source of Power	Tank Oil (L)	Port	Weight (kg)
TPE-4000	8L/min @ 60 bar 1.6L/min @ 320 bar 0.8L/min @ 700 bar	0.8	1.1 KW 6.75 A	220v – 50Hz 110v – 60Hz	8	4	26

- **Intelligent one-button operation, Press the start button Advance & Return will work automatically to tighten and loosen the bolts safe & quickly.**
- **The high-efficiency three-stage flow pressure design perfectly simulates manual operation, realizing fast light load, slow speed heavy load, and more accurate bolt pre-tightening.**
- **The integrated circuit and the digital pressure gauge realize commutation through the pressure value signal, with fast response speed and high work efficiency.**
- **Three stage pump, Four Ports. Max Pressure: 700 Bar / 10000 PSI.**
- **High-power motor without carbon brush, easy maintenance and long life, the motor is equipped with a starting capacitor, which can be started with load, and the operation is more concise.**
- **High speed and high efficiency, more than 30% higher than ordinary automatic pump efficiency.**
- **High-performance radiator, the fan starts automatically when the oil temperature reaches 35 °C, ensuring long-term uninterrupted work.**

SPRING RETURN TENSIONER







Brand:	Torqueing Power Solutions (TPS)	**Max Tool Pressure**	1500 Bar (21,750psi)
Series:	TSRT (Spring Return Tensioner)	**Bolt Coverage**	20 to 115 mm (3/4" to 4.1/2")

Model	Bolt		Tension		Area of Thrust Surface		A		B		C		D				Weight	Stroke
													Imperial		Metric			
	Imperial	Metric	LBS	KN	in^2	mm^2	in	mm	in	mm	in	mm	in	mm	in	mm	kg	mm
TSRT0	3/4"	M20	35500	160	1.65	1067	2.6	66	3.7	93	2.5	63	5.4	136	5.5	142	2.5	10mm
	7/8"	M22											5.6	142	5.6	144		
TSRT1	1"	M24	61950	280	2.89	1867	3.4	87	4.6	117	2.7	68	6.9	175	6.9	175	3.7	10mm
	-	M27							4.6	117	2.7	68	-	-	7	178		
	1-1/8"	-							4.7	120	2.8	72	7.1	181	-	-		
TSRT2	1"	M24	99700	450	4.65	3001	4.1	103	4.6	117	3	75	6.9	175	6.9	175	5.5	10mm
	-	M27							4.6	117	3	75	-	181	7	178		
	1-1/8"	M30							4.7	120	3.2	80	7.1	188	7.2	184		
	1-1/4"	M33							4.8	123	3.3	84	7.4	195	7.5	190		
	1-3/8"	M36							5	126	3.5	89	7.7	-	7.7	196		
TSRT3	1-1/4"	M33	145950	660	6.82	4401	4.7	118	4.8	123	3.5	88	7.5	190	7.6	192	7.5	10mm
	1-3/8"	M36							5	126	3.8	96	7.8	197	7.8	198		
	1-1/2"	M39							5.1	130	3.8	96	8	203	8	204		
	1-5/8"	M42							5.2	133	4.1	105	8.2	209	8.3	211		
TSRT4	1-1/2"	M39	223550	1000	10.34	6668	5.5	140.5	5.2	132	4.4	112	8.3	211	8.4	212	11.5	10mm
	1-5/8"	M42							5.3	135	4.5	114	8.5	217	8.6	218		
	1-3/4"	M45							5.5	139	4.7	118	8.8	223	8.9	225		
	1-7/8"	M48							5.6	142	4.5	114	9.1	230	9.1	231		
	2"	M52							5.7	145	4.7	120	9.3	236	-	-		
TSRT5	2"	M52	331400	1500	15.5	10003	6.9	175.5	5.8	148	4.7	120	9.7	246	9.8	248	18.5	10mm
	2-1/4"	M56							6.1	154	5.4	138	10.2	259	10.2	258		
	-	M60							6.3	161	5.4	138	10.2	259	10.3	262		
	2-1/2"	M64							6.3	161	6	153	10.7	272	10.8	273		
	2-3/4"	M68							6.6	167	6.1	156	11.2	284	11.1	283		
TSRT6	2-3/4"	M72	553200	2500	25.84	16671	9.2	235	6.6	167	6.2	157	11.6	294	11.7	297	33	10mm
	3"	M76							6.9	171	7.2	182	12.1	307	12.1	308		
	-	M80							7.1	180	7.5	190	-	-	12.3	312		
	3-1/4"	M85							7.1	180	7.5	190	12.6	320	12.7	323		
	3-1/2"	M90							7.3	186	8.1	205	13.1	332	13.2	334		
TSRT7	3-1/2"	M90	708200	3200	33.06	21339	9.9	252	7.3	186	7.9	200	13.2	339	13.3	341	47	10mm
	-	M95							7.3	186	7.9	200	-	-	13.5	346		
	3-3/4"	M100							7.6	192	7.9	200	13.7	352	13.9	356		
	4"	-							7.8	199	8.3	210	14.2	363	-	-		
TSRT8	4"	M105	929513	4200	42.35	27336	11.1	283	7.8	199	10	255	10.4	264	-	-	63	10mm
	-	M110							7.8	199	10	255	10.4	264	-	-		
	4-1/4"	M115							8.1	205	10.2	260	10.6	270	-	-		
	4-1/2"	-							8.3	212	10.6	270	10.9	277	-	-		

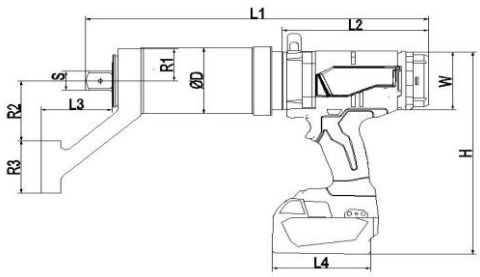


BATTERY TORQUE WRENCH



- Driven by a new modern brushless motor: The BTW Series reaches torques very precisely and efficient. Even when the battery is low.
- New modern brushless motor have a better efficient power output than existing competitors
- High accuracy of +/-5%, recalibration system makes tool more accurate. Programmable preset torque settings
- Numerous bolting's: The powerful 18V 5.0Ah battery reaches up to 300 bolting per battery charge. We also deliver a second battery pack with the multiplier. 9.0Ah battery optional
- Red lithium battery packs help bolting more nuts
- LCD digital display. Adjusting torque with every 10 Nm
- Wireless control optional, data recording system up to 1000 numbers of bolting job
- Optional Transducerized system. Output shaft with transducerized make torque output accuracy less than +/-2%

Brand:	Torqueing Power Solutions (TPS)
Series:	BTW (Battery Torque Wrench)
Accuracy:	+ / - 5 %
Advantages:	Brush-less Motor
	Precise and efficient
	Lighter, Durable and Faster
	Suitable for Variety of Applications



Models	min torque (NM)	max torque (NM)	S	D	L2	L1	H	L4	W	R1	R2	R3	L3	weight	speed
					mm									(Kg)	rpm
BTW-05S	100	500	3/4 "	63	152	259	260	110	80	34	56	43	46	4.9	27
BTW-10S	100	1000	3/4 "	69	152	310	260	110	80	34	62	50	48	6.3	11.5
BTW-16S	300	1600	1 "	78	152	330	260	110	80	36	70	58	60	6.9	7.5
BTW-20S	400	2000	1 "	78	152	330	260	110	80	36	70	58	60	6.9	6.5
BTW-30S	500	3000	1 "	88	152	340	260	110	80	46	80	70	80	8.2	5
BTW-40S	700	4000	1-1/2 "	98	152	378	260	110	80	46	80	70	80	10.3	3
BTW-60S	1000	6000	1-1/2 "	105	152	424	260	110	80	55	90	80	95	12.6	2.2
BTW-80S	2000	8000	1-1/2 "	113	152	435	260	110	80	55	90	80	95	17	1.6
BTW-100S	1000	10000	1-1/2 "	128	152	449	260	110	80	67	118	90	110	21	1.3
BTW-120S	1200	12000	1-1/2 "	128	152	449	260	110	80	67	118	90	110	21	1.1
BTW-150S	1500	15000	1-1/2 "	138	152	456	260	110	80	67	118	90	110	23	0.9

****Standard kit contains: Torque wrench, reaction arm, retaining ring, quick charger, 2 X 18V 5.0AH batteries, Carrying case, Instruction manual etc.**

PNEUMATIC TORQUE WRENCH

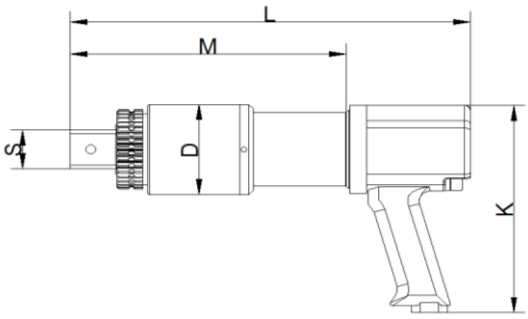






- Pneumatic torque wrenches operate using a compressed air motor coupled with a precision gear reduction system to deliver controlled, repeatable high-torque output.
- Engineered for critical industrial bolting applications, these tools provide consistent torque accuracy under continuous use in demanding environments.
- Unlike hydraulic alternatives, air-driven torque systems eliminate external high-pressure hydraulic pumps, hoses, and fluid power units while maintaining fast cycle times and operational reliability.
- This makes pneumatic torque solutions ideal for high-volume fastening applications in industries such as mining, oil and gas, power generation, and heavy equipment maintenance where precision, safety, and uptime are essential.

Brand:	Torqueing Power Solutions (TPS)
Series:	PTW Pneumatic Torque Wrench
Accuracy:	+ / - 5 %
Advantages:	Light & Compact Design
	Low Noise Level with No Vibration
	Heavy Duty Gear Box
	Suitable for Variety of Applications



Models	Min torque (NM)	Max torque (NM)	S (mm)	D (mm)	L (mm)	K (mm)	M (mm)	weight (Kg)	Speed rpm
PTW-09S	270	930	3/4 "	74	285	195	175	5.2	20
PTW-16S	420	1640	1 "	77	312	195	202	6.2	8.5
PTW-20S	590	2170	1 "	77	312	195	202	6.2	6.0
PTW-30S	870	3100	1 "	81	346	195	236	7.8	3.6
PTW-40S	1500	4300	1.1/2 "	88	367	195	257	9.4	2.6
PTW-60S	1570	6200	1.1/2 "	113	385	195	275	14.3	2.3
PTW-80S	2300	8400	1.1/2 "	120	392	195	282	15.8	1.5
PTW-100S	2970	10600	1.1/2 "	128	411	195	301	19	1.0
PTW-120S	3100	12000	1.1/2 "	128	411	195	301	19	0.8

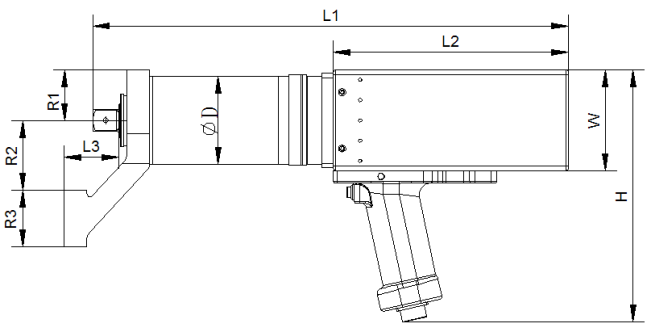
****Standard kit contains: Torque Wrench, Reaction arm, retaining ring, portable FRL unit, 3.6m hose with fittings, ABS carrying case, Instruction manual etc.**

ELECTRIC TORQUE WRENCH



- Electric torque wrench Integrated servo motor
- The above parameters are subject to change. The actual conditions prevail. The weight does not include the weight of the reaction arm.
- Programmable preset torque value with torque and angle control
- Accuracy ± 3%
- Integrated AC servo motor with power box (200x120x75mm) and 5m cable

Brand:	Torqueing Power Solutions (TPS)
Series:	STW (Servo Torque Wrench)
Power Input	220 / 230V, 1 PH, 50/60 Hz
Accuracy:	+ / - 3 %
Advantages:	Ergonomically designed handle
	High Precision Japanese Servo Motor
	Lower Noise, Faster Speed
	Real time display of torque



Model	min torque (NM)	max torque (NM)	S	D	L1	L2	L3	H	W	R1	R2	R3	Weight	speed
					mm								(Kg)	rpm
STW-05S	100	500	3/4 "	65	400	217	46	223	89	34	56	43	6.8	19
STW-10S	100	1000	3/4 "	78	405	217	48	223	89	34	62	50	7.5	8.4
STW-16S	200	1600	1 "	78	447	217	60	223	89	36	70	58	8.4	5.6
STW-20S	400	2000	1 "	78	447	217	60	223	89	36	70	58	8.4	4.5
STW-30S	500	3000	1 "	88	448	217	80	223	89	46	80	70	10.2	3.2
STW-40S	700	4000	1-1/2 "	98	462	217	80	223	89	46	80	70	12.3	2
STW-60S	1000	6000	1-1/2 "	113	492	217	95	223	89	55	90	80	15.6	1.4
STW-80S	1200	8000	1-1/2 "	120	502	217	95	223	89	55	90	80	18.7	1.2
STW-100S	2000	10000	1-1/2 "	128	516	217	110	223	89	67	118	90	21.4	1.1
STW-120S	3000	12000	1-1/2 "	128	516	217	110	223	89	67	118	90	21.4	1
STW-150S	4000	15000	1-1/2 "	138	542	217	110	223	89	67	118	90	25.5	0.8

****Standard kit contains: Torque wrench, reaction arm, retaining ring, Carrying case, Instruction manual etc.**

HYDRAULIC NUT SPLITTER



- Compact and ergonomic design, easy to use.
- Unique angled head design.
- Single-acting spring return cylinder.
- Matched with hand pump & hose.

Model	Nut Range (mm)	Capacity (ton)	Bolt Range	Weight (kg)
HNS1019	10-19	5	M6-M12	1.2
HNS1924	19-24	10	M12-M16	2
HNS2432	24-32	15	M16-M22	3
HNS3241	32-41	20	M22-M27	4.4
HNS4150	41-50	35	M27-M33	8.2
HNS5060	50-60	50	M33-M39	11.8
HNS6075	60-75	90	M39-M48	34.1





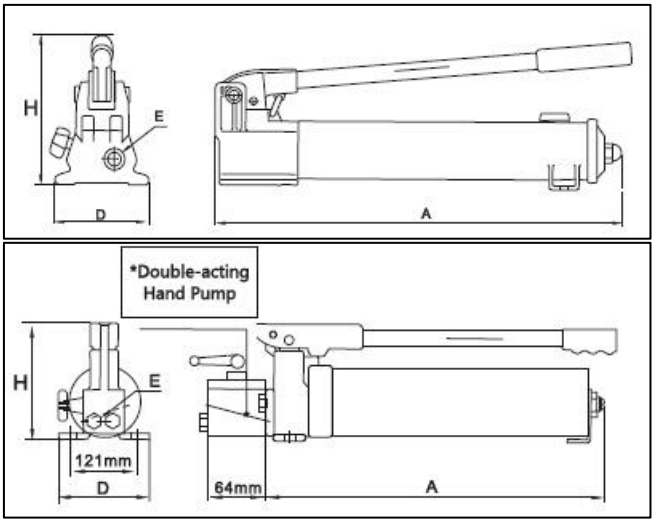
- Single-acting, spring return.
- Tri-blade technology provides three cutting surfaces on a single blade.
- Interchangeable heads provide maximum nut range flexibility.
- Preset scale allows controlled blade extension, which avoids damage to bolt threads.
- Grip tape and handle included for more secure movability.
- Nickel-plated cylinder body for excellent corrosion protection and improved durability in harsh environments.
- Internal Pressure Relief Valve for overload protection

Model	Nut Range (mm)	Capacity (ton)	Bolt Range	Weight (kg)
HNS7080	70-80	103	M45-m52	37
HNS7085	70-85	103	M45-M56	37
HNS7095	70-95	103	M45-M64	39
HNS70105	70-105	103	M45-M72	40
HNS110115	110-115	193	M76-M80	69
HNS110130	110-130	193	M76-M90	72



PNEUMATIC NUT SPLITTER PUMP

Brand	Torqueing Power Solutions (TPS)
Model	PNSP-700
Oil Tank capacity	6 Liters
Oil Flow	0.6L/min
Air Source	0.4-0.8Mpa
Working Pressure	700 bar
Weight	~19KG
Dimension	40*31*44cm



MANUAL NUT SPLITTER PUMP

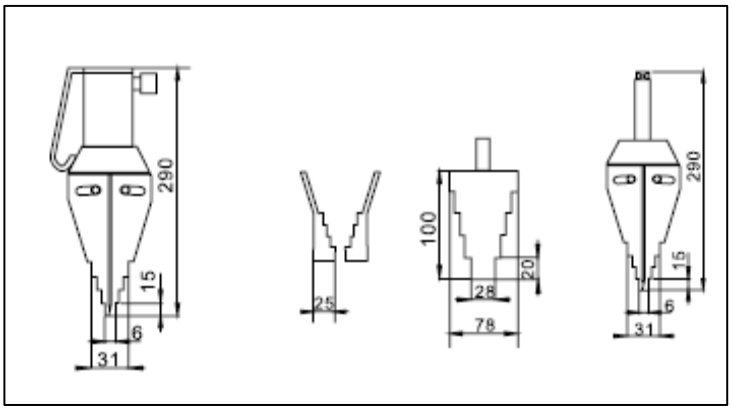


Model	Usable Oil (cm3)	Pump Type	Pressure Rating (Bar)		Oil Capacity (cm3)		Dimensions (mm)			Oil Port Thread (NPT) E	Weight (kg)
			1st Stage	2nd Stage	1st Stage	2nd Stage	A	H	D		
T-142	350	Single Acting	13.8	700	7.0	1.0	310	127	137	3/8	2.2
T-392	901		13.0	700	11.26	2.47	533	157	120	3/8	4.0
T-80	2200		25.0	700	16.22	2.46	545	170	148	3/8	10.9
T-801	4080		25.0	700	16.22	2.46	659	174	146	3/8	14.1
T-462	7423		25.0	700	16.22	2.46	650	308	280	3/8	26.2
T-462XL	10000		25.0	700	16.22	2.46	650	308	280	3/8	35.8
T-84	2200	Double Acting	25.0	700	16.22	2.46	545	170	148	3/8	10.9
T-841	4080		25.0	700	16.22	2.46	675	174	146	3/8	14.9
T-464	7423		25.0	700	16.22	2.46	650	308	280	3/8	26.2
T-464XL	10000		25.0	700	16.22	2.46	650	308	280	3/8	36.8

Model	Description
HC-7210c	**Hydraulic Hose 3m with fitting**
HC-7220c	**Hydraulic Hose 6m with fitting**

HYDRAULIC FLANGE SPREADER





- **Max Working Pressure: 700 Bar.**
- **For maintenance, commissioning, shutdowns, testing and valve change outs.**
- **No need for hammers, chisels, slings, or chain blocks.**
- **Requires very small access gap of only 6 mm.**
- **Both mechanical and hydraulic options available.**

Model	Max. Separation Force (ton)	Top End Thickness (mm)	Max. Separation Distance (mm)	Type	Oil Volume (cm3)	Weight (kg)
MFS-8	8	6	81	Mechanical	-	6.5
HFS-14	14	6	81	Hydraulic	78	7.0
P-392	Hand pump for Flange spreader					
HC-7206C	Hydraulic hose with connector					

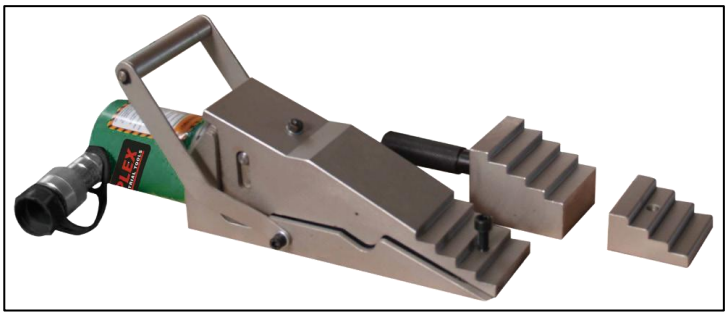
INTEGRAL HYDRAULIC FLANGE SPREADER

- **Built inside, no extra pump and hose.**
- **Operation simple and efficient.**



Model	Max. Separation Force (ton)	Top End Thickness (mm)	Max. Separation Distance (mm)	Type	Oil Volume (cm3)	Weight (kg)
IFS-14	14	6	81	Hydraulic	78	11

HYDRAULIC LIFTING DEVICE



- Max Working Pressure: 700 Bar.
- Min installation space 10mm.
- Capacity is 16 ton @ 700 Bar.
- Every step can bear full load.
- Vertical lifting.
- Unique chain lock wedge shape design.
- Single acting, spring return.
- Including safety block SB-2.

Model	Max. Separation Force (ton)	Min. Width (mm)	Stroke (mm)	Max. Separation Distance (mm)	Type	Oil Volume (cm3)	Weight (kg)
HLD-16	16	10	21	81	Hydraulic	78	9

FLANGE ALIGNMENT TOOL





- It rectifies twist and rotational misalignment quickly, safely and without the need for an external power source.
- Appropriate for use on most ANSI, API, BS and DIN flanges
- Reduces set-up time: no need for chains, pulleys or rigs.
- Safety strap helps provide secure operation.
- Can be installed and used in any position.
- Portable, lightweight design enables easy transport and use, even in remote locations.

Model No	Capacity (ton)	Bolt Hole Diameter (mm)	Flange Thickness (mm)	Weight (kg)
TFAT-1	1	≥ 16	14-82	2.1
TFAT-4	4	≥ 24	30-133	8.6
TFAT-9	9	≥ 35.5	93-228	14.5

MANUAL TORQUE WRENCH

- The Torque Wrench is made of all-metal structure, which is more durable
- The ratchet head can be switched clockwise or counterclockwise, and the ratchet has 45 teeth
- Accuracy: ± 3% of the reading value (the accuracy of 500 Nm and above is ± 4% of the reading value)
- Each torque wrench has a unique identification code for easy traceability.
- The permanent torque scale on the alloy steel is easy for users to read and compare with the metric and imperial systems.
- Pull down the locking ring on the handle, turn the handle to adjust the torque and push it up to lock the torque valve
- There are anti-slip grooves on the handle, which are comfortable and anti-slip.



Model No	Square Drive	Range (NM)	Range (Ft.Lb)	Length (mm)	Width (mm)	Weight (kg)
TM45	1/2″	10 – 60	9 – 45	388	38	0.96
TM75	1/2″	20 – 100	15 -75	443	38	1.04
TM90	1/2″	25 – 125	20 – 90	443	38	1.04
TM150	1/2″	40 – 200	30 – 150	468	40	1.16
TM150L	1/2″	40 – 200	30 – 150	525	40	1.29
TM250	1/2″	65 - 335	50 - 250	528	40	1.30
TM250L	3/4″	65 – 335	50 – 250	700	40	2.15
TM300	3/4″	80 – 400	60 – 300	710	57	3.00
TM400	3/4″	100 – 500	80 – 400	710	57	3.00
TM400L	3/4″	100 – 500	80 – 400	855	60	5.00
TM600	3/4″	160 – 800	120 – 600	1055	60	5.90
TM600A	1″	160 – 800	120 – 600	1055	60	5.90
TM750	3/4″	200 – 1000	150 – 750	1055	60	5.90
TM750A	1″	200 – 1000	150 – 750	1055	60	5.90
TM1100	1″	300 – 1500	200 – 1100	1260	75	9.20
TM1500	1″	400 – 2000	300 – 1500	1260	75	9.20
TM2000	1″	600 - 3000	400 – 2000	1260	75	10.5
TM1100L	1″	300 – 1500	200 – 1100	1600	75	13.00
TM1500L	1″	400 – 2000	300 – 1500	1600	75	13.00
TM2000L	1″	600 - 3000	400 – 2000	1840	75	15.2
TM1100E	1″	300 – 1500	200 – 1100	2200	75	11.5
TM1500E	1″	400 – 2000	300 – 1500	2200	75	11.5
TM2000E	1″	600 - 3000	400 – 2000	2780	75	15.5

MANUAL TORQUE WRENCH

- The Torque Wrench is made of all-metal structure, which is more durable
- Accuracy: ± 3% of the reading value (the accuracy of 500 Nm and above is ± 4% of the reading value)
- Each torque wrench has a unique identification code for easy traceability.
- The permanent torque scale on the alloy steel is easy for users to read and compare with the metric and imperial systems.
- Pull down the locking ring on the handle, turn the handle to adjust the torque and push it up to lock the torque valve
- There are anti-slip grooves on the handle, which are comfortable and anti-slip.



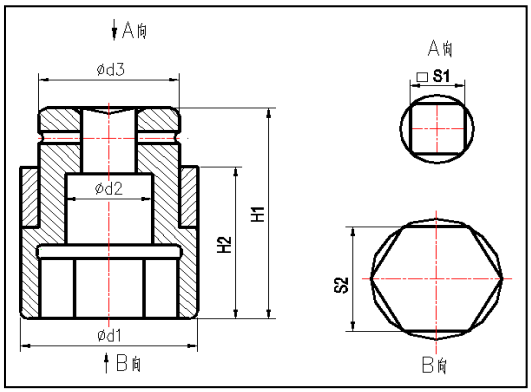
Model No	Square	Range (NM)	Range (Ft.Lb)	Length (mm)	Width (mm)	Weight (kg)
TMH45	9 x 12	10 – 60	9 – 45	375	38	0.86
TMH75	9 x 12	20 – 100	15 – 75	430	38	0.94
TMH90	9 x 12	25 – 125	20 – 90	430	38	0.94
TMH150	14 x 18	40 – 200	30 – 150	467	38	1.06
TMH250	14 x 18	65 – 335	50 – 250	527	38	1.20
TMH250L	14 x 18	65 – 335	50 – 250	700	38	2.00
TMH300	14 x 18	80 – 400	60 – 300	700	38	2.00
TMH400S	24 x 32	100 – 500	80 – 400	710	56	3.00
TMH400	24 x 32	100 – 500	80 – 400	855	56	5.00
TMH600	24 x 32	160 – 800	120 – 600	1055	56	5.90
TMH750	24 x 32	200 – 1000	150 – 750	1055	56	5.90
TMH1100	27 x 36	300 – 1500	200 – 1100	1249	64	9.00
TMH1500	27 x 36	400 – 2000	300 – 1500	1249	64	9.00
TMH2000	27 x 36	600 – 3000	400 – 2000	1249	64	10.3
TMH1100E	27 x 36	300 – 1500	200 – 1100	2200	64	12.5
TMH1500E	27 x 36	400 – 2000	300 – 1500	2200	64	12.5
TMH2000E	27 x 36	600 – 3000	400 – 2000	2780	64	15.3
Model No	**Square**	**Range (NM)**	**Range (Ft.Lb)**	**Length (mm)**	**Width (mm)**	**Weight (kg)**
TMR45	φ16	10 – 60	9 – 45	377	38	0.86
TMR90	φ16	25 – 125	20 – 90	431	38	0.94
TMR150	φ16	40 – 200	30 – 150	455	38	1.06
TMR250	φ16	65 – 335	50 – 250	515	38	1.20
TMR250L	φ16	65 – 335	50 – 250	695	38	2.00
TMR300	φ16	80 – 400	60 – 300	695	38	2.00
TMR400	φ22	100 – 500	80 – 400	800	38	4.30
TMR600	φ22	160 – 800	120 – 600	1005	38	5.20
TMR750	φ22	200 - 1000	150 - 750	1005	38	5.20

SMART SOCKET

- Measures and displays peak torque up to 18,000 ft. lbs. (24,404 Nm)
- NEW 18K Smart Socket™ must be used with a deep reaction arm
- Build-in rechargeable battery
- "Pass" or "Fail" indication function
- Data logging – download logs (XLS, CSV, PDF)
- Free software included
- Full traceability of bolted joints
- Optional: Tablet



Brand:	Torqueing Power Solutions (TPS)
Series:	S – Series (Smart Socket)
Advantages:	Real time monitoring
	Preset target torque.
	Real peak torque pass or fail indication
	Data recording system



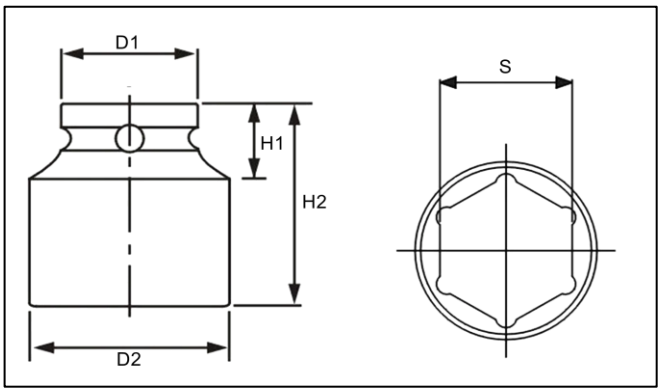
Model	Bolt Size mm	Max. Torque (NM)	S1 (Sq. Dr.)	S2 (Hex) mm	H1	H2	d1	d2	d3
					mm				
S-24	M24	1200	3/4"	36	83	65	52	26	42
S-36	M36	3000	1"	55	92	72	84	37	52
S-39	M39	3600	1.1/2"	60	108	83	90	42	86
S-42	M42	4600	1.1/2"	65	114	74	99	46	86
S-45	M45	5400	1.1/2"	70	118	88	108	47	86
S-48	M48	6600	1.1/2"	75	120	90	118	49	88
S-52	M52	8300	1.1/2"	80	124	99	124	53	90
S-56	M56	10200	1.1/2"	85	126	100	131	57	90
S-64	M64	12000	1.1/2"	95	132	105	146	65	94

SMART SOCKET

- **Real time monitoring, measures and display peak torque**
- **Preset target torque, real peak torque Pass or Fail indication**
- **Data recording system, download or transfer by Wireless/Bluetooth**
- **Wide range torque measurement**
- **New update App software and Industrial touch screen optional**
- **C-Series Smart Socket is connectivity with all -Series which is Bluetooth and Wireless compatible and it's for transducer verified joint calibration (optional)**
- **Simple new technology re-calibration system makes smart socket can fit any transducer fixture (dynamic or static) for calibration purpose**



Brand:	Torqueing Power Solutions (TPS)
Series:	C – Series (Smart Socket)
Advantages:	Real time monitoring
	Preset target torque.
	Real peak torque pass or fail indication
	Data recording system



Model	Hex S (mm)	Min Torque (N.m)	Max Torque (N.m)	S	D1	D2	H1	H2	Weight
					mm				(Kg)
C-33	33	200	2000	3/4 "	42	72	30	100	1.3
C-36	36	200	2000	1 "	54	72	35	100	1.3
C-41	41	200	2000	1 "	54	72	22	90	1.3
C-46	46	200	2000	1 "	54	72	22	90	1.3
C-50	50	400	4000	1 "	54	86	20	90	1.5
C-55	55	400	4000	1 "	54	86	20	90	1.5
C-60	60	400	4000	1 "	54	86	20	90	1.5
C-65	65	1000	10000	1-1/2 "	87	115	30	120	4.1
C-70	70	1000	10000	1-1/2 "	87	115	30	120	4.1
C-80	80	1000	10000	1-1/2 "	87	115	30	120	4.1
C-90	90	1600	16000	1-1/2 "	100	115	30	130	5.6
C-100	100	1600	16000	1-1/2 "	100	115	45	145	7.1

BOLTING ACCESSORIES

IMPACT SOCKETS





TPS impact sockets are available in a wide range of lengths and wall thickness and with single or double hex openings. Square openings are also available. (6 Point Sockets

- **Sq. Drive Available: ¾", 1", 1.1/2" & 2.1/2"**
- **Sizes in Inch: (1" – 6-7/8")**
- **Sizes in MM: (32mm – 155mm)**

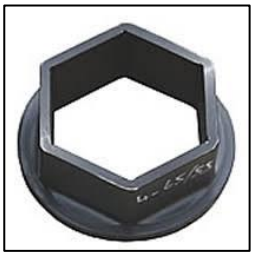
SLUGGING WRENCH




Striking/slugging wrenches are designed to be struck by a hammer on the anvil area, in order to loosen frozen fasteners or to set and tighten fasteners. Anvils are proportional to wrench opening size. Specially selected alloy steel and best suited heat treatment providers, maximum durability for long life and to withstand the serve working conditions.

- **Sizes in Inch: (1.1/4" – 6-7/8")**
- **Sizes in MM: (32mm – 175mm)**

BOLTING ACCESSORIES






HEX REDUCER **HEX BIT SOCKET** **ADAPTORS**

BOLTING ACCESSORIES

REACTION ARM

Every TPS tool includes a standard reaction arm. In addition to this, you can order the below special reaction arms to ensure correct reaction for different applications. These reaction arms include deep socket, double ended arm, blank, nose extensions, etc.





FIXTURED SPINDLE

Multi spindle tightening units are practical and effective solutions to increase productivity thanks to simultaneous and accurate tightening of several screws, bolts or nuts. They can feature two or more spindles, axial compensation to tighten elements at different heights, or variables distances between centers to tighten components having different geometries using the same solution, only by changing spindles positions. Multi spindle units, can be manually operated, therefore used by the operator to perform tightening in vertical or horizontal direction, can also be integrated into automatic assembly lines or automatic workstations, with manual loading of the workpiece.



LONG-MOUTHED COUNTERFORCE ARM



Designed with flexibility in mind - nose extensions for all your hard to reach applications!
A “fixed” Nose Extension has a paddle welded onto the end of the Nose Extension.
A Nose Extension without a reaction arm allows for more flexibility.

THREE-PIECE BASKET

Carrying your TPS Pneumatic Tool around from job to job? Introducing the TPS basket.

We decided to continue our quest for improved ergonomics by not only engineering the world's lightest pneumatic torque wrenches with the highest power-to-weight ratio in the industry, but also by developing the industry's most ergonomic tool basket.

Result in benefits:
Offset handle allows for balanced carrying the tool is stored in the storage pocket
Accessory pocket allows for quick and easy access to additional accessories such as custom reaction arms, snap rings and sockets.
High density Polypropylene construction means the tool basket will stand up to the most demanding conditions while remaining lightweight for easy portability.





DC – AC POWER BOX



Patented Battery + Electric 2 in 1: Power supply 18V battery and international power supply AC 90V-264V, 47-63HZ both apply B-Series series, new advanced technology, more accurate.

Can work with battery or electric power AC supply

Bolt Size Quantity & Nut Size for ANSI B16.5 & M.S.S SP-44 Weld Neck Flange

Size	150 lb.	300 lb.	400 lb.	600 lb.	900 lb.	1500 lb.	2500 lb.
Inch	Bolt	Bolt	Bolt	Bolt	Bolt	Bolt	Bolt
1/2"	4 x 1/2	4 x 1/2	4 x 1/2	4 x 1/2	4 x 3/4	4 x 3/4	4 x 3/4
3/4"	4 x 1/2	4 x 5/8	4 x 5/8	4 x 1/2	4 x 3/4	4 x 3/4	4 x 3/4
1"	4 x 1/2	4 x 5/8	4 x 5/8	4 x 5/8	4 x 7/8	4 x 7/8	4 x 7/8
1.1/4"	4 x 1/2	4 x 5/8	4 x 5/8	4 x 5/8	4 x 7/8	4 x 7/8	4 x 1
1.1/2"	4 x 1/2	4 x 3/4	4 x 3/4	4 x 3/4	4 x 1	4 x 1	4 x 1.1/8
2"	4 x 5/8	8 x 5/8	8 x 5/8	8 x 5/8	8 x 7/8	8 x 7/8	8 x 1
2.1/2"	4 x 5/8	8 x 3/4	8 x 3/4	8 x 3/4	8 x 1	8 x 1	8 x 1.1/8
3"	4 x 5/8	8 x 3/4	8 x 3/4	8 x 3/4	8 x 7/8	8 x 1.1/8	8 x 1.1/4
3.1/2"	8 x 5/8	8 x 3/4	8 x 7/8	8 x 7/8	-	-	-
4"	8 x 5/8	8 x 3/4	8 x 7/8	8 x 7/8	8 x 1.1/8	8 x 1.1/4	8 x 1.1/2
5"	8 x 3/4	8 x 3/4	8 x 1	8 x 1	8 x 1.1/4	8 x 1.1/2	8 x 1.3/4
6"	8 x 3/4	12 x 3/4	12 x 1	12 x 1	12 x 1.1/8	12 x 1.3/8	8 x 2
8"	8 x 3/4	12 x 7/8	12 x 1.1/8	12 x 1.1/8	12 x 1.3/8	12 x 1.5/8	12 x 2
10"	12 x 7/8	16 x 1	16 x 1.1/4	16 x 1.1/4	16 x 1.3/8	12 x 1.7/8	12 x 2.1/2
12"	12 x 7/8	16 x 1.1/8	20 x 1.1/4	20 x 1.1/4	20 x 1.3/8	16 x 2	12 x 2.3/4
14"	12 x 1	20 x 1.1/8	20 x 1.3/8	20 x 1.3/8	20 x 1.1/2	16 x 2.1/4	-
16"	16 x 1	20 x 1.1/4	20 x 1.1/2	20 x 1.1/2	20 x 1.5/8	16 x 2.1/2	-
18"	16 x 1.1/8	24 x 1.1/4	20 x 1.5/8	20 x 1.5/8	20 x 1.7/8	16 x 2.3/4	-
20"	20 x 1.1/8	24 x 1.1/4	24 x 1.5/8	24 x 1.5/8	20 x 2	16 x 3	-
24"	20 x 1.1/8	24 x 1.1/2	24 x 1.7/8	24 x 1.7/8	20 x 2.1/2	16 x 3.1/2	-
22"	20 x 1.1/4	24 x 1.1/2	24 x 1.5/8	24 x 1.3/4	-	_	_
26"	24 x 1.1/4	28 x 1.5/8	28 x 1.3/4	28 x 1.7/8	20 x 2.3/4	_	_
28"	28 x 1.1/4	28 x 1.5/8	28 x 1.7/8	28 x 2	20 x 3	_	_
30"	28 x 1.1/4	28 x 1.3/4	28 x 2	28 x 2	20 x 3	_	_
32"	28 x 1.1/2	28 x 1.7/8	28 x 2	28 x 2.1/4	20 x 3.1/4	_	_
34"	32 x 1.1/2	28 x 1.7/8	28 x 2	28 x 2.1/4	20 x 3.1/2	_	_
36"	32 x 1.1/2	32 x 2	32 x 2	28 x 2.1/2	20 x 3.1/2	_	_
38"	32 x 1.1/2	32 x 1.1/2	32 x 1.3/4	28 x 2.1/4	20 x 3.1/2	_	_
40"	36 x 1.1/2	32 x 1.5/8	32 x 1.7/8	32 x 2.1/4	24 x 3.1/2	_	_
42"	36 x 1.1/2	32 x 1.5/8	32 x 1.7/8	28 x 2.1/2	24 x 3.1/2	_	_
44"	40 x 1.1/2	32 x 1.3/4	32 x 2	32 x 2.1/2	24 x 3.3/4	_	_
46"	40 x 1.1/2	28 x 1.7/8	36 x 2	32 x 2.1/2	24 x 4	_	_
48"	44 x 1.1/2	32 x 1.7/8	28 x 2.1/4	32 x 2.3/4	24 x 4	_	_
50"	44 x 1.3/4	32 x 2	32 x 2.1/4	28 x 3	-	_	_
52"	44 x 1.3/4	32 x 2	32 x 2.1/4	32 x 3	-	_	_
54"	44 x 1.3/4	28 x 2.1/4	28 x 2.1/8	32 x 3	-	_	_
56"	48 x 1.3/4	28 x 2.1/4	28 x 2.1/8	32 x 3.1/4	-	_	_
58"	48 x 1.3/4	32 x 2.1/4	28 x 2.1/8	32 x 3.1/4	-	_	_
60"	52 x 1.3/4	32 x 2.1/4	32 x 2.3/4	28 x 3.1/2	-	_	_

STUD SIZE & TOOL SELECTOR

Calculations based upon 50% of yield strength – Yield Strength of ASTM A193-B7,B16 studs with ASTM A194-2H nuts is 105,000 psi up to 2.1/4" diameter studs and drops to 95,000 psi for studs 2.1/2" diameter up to 4" diameter, and furthermore to 75,000 psi for studs 4.1/4" and larger. The same basis also applies to the following low temperature materials ASTM A320, L7 <2.1/2" , L43 <4" & L1 <1" diameter

Stud	-	Regular Hex	Heavy Hex	-	Wrench Option		Molly Paste	Omega 99	Machine Oil	Normal Dry
Size	MM	Inch	Inch	MM	TS	TLP	F=0.11	F=0.13	F=0.15	F=0.20
1/2"	12.7	3/4"	7/8"	22.22	-	-	44	51	58	75
5/8"	15.87	1"	1.1/16"	27	-	-	86	100	113	147
3/4"	19.05	1.1/8"	1.1/4"	31.75	TS-1	TLP-2	159	176	209	272
7/8"	22.22	1.5/16"	1.7/16"	36.51	TS-1	TLP-2	254	281	335	435
1"	25.4	1.1/2"	1.5/8"	41.27	TS-1	TLP-2	379	418	499	649
1-1/8"	28.57	1.11/16"	1.13/16"	46.03	TS-1	TLP-2	553	611	730	953
1-1/4"	31.75	1.7/8"	2"	50.8	TS-3	TLP-2/4	772	855	1023	1337
1-3/8"	34.9	2.1/16"	2.3/16"	55.56	TS-3	TLP-4	1043	1157	1386	1814
1-1/2"	38.1	2.1/4"	2.3/8"	60.32	TS-3	TLP-4	1366	1521	1820	2387
1-5/8"	41.27	2.7/16"	2.9/16"	65.08	TS-5	TLP-4	1755	1954	2342	3076
1-3/4"	44.45	2.5/8"	2.3/4"	69.85	TS-5/8	TLP-4/8	2210	2462	2953	3833
1-7/8"	47.62	2.13/16"	2.15/16"	74.61	TS-5/8	TLP-8	2739	3058	3664	4822
2"	50.8	3"	3.1/8"	79.37	TS-8	TLP-8	3320	3736	4455	5874
2.1/8"	53.97	3.3/16"	3.5/16"	84.13	TS-8/10	TLP-8/13	4007	4735	5381	7099
2.1/4"	57.15	3.3/8"	3.1/2"	88.9	TS-10	TLP-13	4779	5371	6424	8480
2.3/8"	60.32	3.9/16"	3.11/16"	93.66	TS-10	TLP-13	5648	6647	7597	10033
2.1/2"	63.5	3.3/4"	3.7/8"	98.42	TS-15	TLP-13/19	6615	7428	8903	11764
2.3/4"	69.85	4.1/8"	4.1/4"	107.9	TS-15	TLP-19	8020	9977	10807	14291
3"	76.2	4.1/2"	4.5/8"	117.4	TS-20	TLP-19/30	10472	13007	14124	18689
3.1/4"	82.55	4.7/8"	5"	127	TS-20/25	TLP-30	13377	16626	18057	23907
3.1/2"	88.9	5.1/4"	5.3/8"	136.5	TS-25	TLP-30	16778	20863	22664	30022
3.3/4"	95.25	5.5/8"	5.3/4"	146	TS-25	TLP-30	20707	25742	27989	37091
4"	101.6	6"	6.1/8"	155.5	TS-50	TLP-30	25206	29788	34088	45190
4.1/4"	107.9	6.3/8"	6.1/2"	165.1	TS-50	-	23931	28282	32379	42939
4.1/2"	114.3	6.3/4"	6.7/8"	174.6	TS-50	-	28478	33656	38548	51134

Note: Loosening Torque will vary due to variety of conditions:-

1.Rust & Water Corrosion requires 2 times the tightening force for loosening.

2.Chemical & Sea Water Corrosion requires up to 2 to 2.1/2 times the tightening force for loosening.

3.Heat Corrosion requires up to 3 times the tightening force for loosening.



Pressure vs Torque Conversion Chart TS-Series (PSI vs FT.LB)

PSI	TS-1	TS-3	TS-5	TS-8	TS-10	TS-15	TS-20	TS-25	TS-35
	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb
1000	119	315	540	738	1097	1416	1821	2407	3448
1200	149	378	648	886	1317	1699	2185	2888	4138
1400	174	441	756	1034	1536	1983	2549	3369	4828
1600	197	504	863	1173	1760	2259	2916	3884	5517
1800	222	567	971	1320	1982	2534	3283	4428	6207
2000	246	630	1079	1476	2203	2804	3652	4945	6897
2200	264	692	1187	1613	2428	3079	4019	5464	7586
2400	289	755	1295	1759	2649	3350	4436	5976	8276
2600	314	818	1403	1906	2877	3625	4829	6481	8966
2800	339	881	1511	2053	3102	3900	5223	6987	9655
3000	366	944	1619	2215	3328	4188	5627	7505	10345
3200	393	1007	1727	2362	3551	4480	6011	8017	11035
3400	422	1070	1835	2510	3775	4773	6396	8541	11724
3600	449	1133	1943	2658	3998	5077	6788	9054	12414
3800	475	1196	2051	2805	4224	5349	7185	9583	13104
4000	502	1259	2159	2953	4448	5612	7601	10135	13794
4200	528	1322	2267	3100	4673	5883	7999	10665	14483
4400	554	1385	2374	3287	4895	6154	8397	11195	15173
4600	580	1448	2482	3437	5119	6425	8755	11662	15863
4800	606	1511	2590	3586	5342	6700	9124	12150	16552
5000	633	1574	2698	3736	5565	6970	9493	12618	17242
5200	659	1637	2806	3885	5785	7230	9875	13122	17932
5400	686	1700	2914	4034	6009	7489	10268	13625	18621
5600	712	1763	3022	4184	6233	7730	10674	14127	19311
5800	738	1826	3130	4333	6456	7989	11068	14630	20001
6000	764	1889	3238	4507	6679	8272	11445	15133	20690
6200	791	1952	3346	4657	6901	8561	11818	15635	21380
6400	817	2014	3454	4808	7123	8844	12195	16138	22070
6600	843	2077	3562	4958	7344	9182	12579	16639	22759
6800	869	2140	3670	5108	7565	9514	12968	17142	23449
7000	895	2203	3778	5258	7787	9847	13357	17645	24139
7200	912	2266	3885	5409	8007	10232	13752	18147	24828
7400	947	2329	3993	5613	8224	10495	14141	18650	25518
7600	973	2392	4101	5765	8442	10757	14530	19153	26208
7800	1000	2455	4209	5917	8654	10999	14926	19655	26897
8000	1026	2518	4317	6069	8871	11261	15315	20158	27587
8200	1052	2581	4425	6220	9074	11518	15710	20660	28277
8400	1078	2644	4533	6372	9289	11787	16099	21163	28966
8600	1105	2707	4641	6524	9505	12055	16488	21666	29656
8800	1130	2770	4749	6675	9722	12326	16883	22168	30346
9000	1156	2833	4857	6827	9939	12609	17272	22671	31035
9200	1182	2896	4965	6979	10152	12892	17662	23174	31725
9400	1207	2959	5073	7131	10369	13178	18056	23676	32415
9600	1230	3022	5181	7282	10567	13521	18446	24179	33104
9800	1255	3085	5289	7434	10776	13827	18840	24681	33794
10000	1280	3148	5397	7586	10985	14137	19230	25184	34484



Pressure vs Torque Conversion Chart TS-Series (BAR vs NM)

BAR	TS-1	TS-3	TS-5	TS-8	TS-10	TS-15	TS-20	TS-25	TS-35
	NM	NM	NM	NM	NM	NM	NM	NM	NM
69	161	427	732	1001	1487	1920	2469	3263	4675
83	202	512	878	1201	1786	2304	2962	3916	5610
97	236	598	1024	1402	2083	2689	3456	4568	6546
110	267	683	1171	1590	2386	3063	3954	5266	7480
124	301	769	1317	1790	2687	3436	4451	6004	8416
138	333	854	1463	2001	2987	3802	4951	6705	9351
152	358	938	1610	2187	3292	4175	5449	7408	10285
166	392	1024	1756	2385	3592	4542	6014	8102	11221
179	426	1109	1902	2584	3901	4915	6547	8787	12156
193	460	1194	2049	2783	4206	5288	7081	9473	13090
207	496	1280	2195	3003	4512	5678	7629	10175	14026
221	533	1365	2341	3202	4815	6074	8150	10870	14961
234	572	1451	2488	3403	5118	6471	8672	11580	15896
248	609	1536	2634	3604	5421	6883	9203	12276	16831
262	644	1622	2780	3803	5727	7252	9742	12993	17767
276	681	1707	2927	4004	6031	7609	10306	13741	18702
290	716	1792	3073	4203	6336	7976	10845	14460	19636
303	751	1878	3219	4457	6637	8344	11385	15178	20572
317	786	1963	3366	4660	6940	8711	11870	15812	21507
331	822	2049	3512	4862	7243	9084	12370	16473	22441
345	858	2134	3658	5065	7545	9450	12871	17108	23377
359	893	2219	3805	5267	7843	9803	13389	17791	24313
372	930	2305	3951	5469	7147	10154	13922	18473	25247
386	965	2390	4097	5673	8451	10480	14472	19154	26182
400	1001	2476	4244	5875	8753	10832	15006	19836	27118
414	1036	2561	4390	6111	9056	11215	15517	20518	28052
428	1072	2647	4536	6314	9357	11607	16023	21198	28987
441	1108	2731	4683	6519	9657	11991	16534	21880	29923
455	1143	2816	4829	6722	9957	12449	17055	22559	30857
469	1178	2901	4975	6926	10257	12899	17582	23241	31793
483	1213	2987	5122	7129	10558	13351	18110	23923	32728
497	1249	3072	5268	7334	10856	13873	18645	24604	33662
510	1284	3158	5414	7610	11150	14229	19173	25286	34598
524	1319	3243	5561	7816	11446	14585	19700	25968	35533
538	1356	3329	5707	8022	11733	14913	20237	26649	36467
552	1391	3414	5853	8228	12027	15268	20764	27331	37403
566	1426	3499	6000	8433	12303	15616	21300	28011	38338
579	1462	3585	6146	8639	12594	15981	21827	28693	39273
593	1498	3670	6292	8845	12887	16344	22355	29375	40208
607	1532	3756	6439	9050	13181	16712	22890	30056	41144
621	1567	3841	6585	9256	13475	17096	23418	30738	42078
634	1603	3926	6731	9462	13764	17479	23946	31420	43013
648	1636	4012	6878	9668	14058	17867	24481	32100	43949
662	1668	4097	7024	9873	14327	18332	25009	32782	44883
676	1702	4138	7170	10079	14610	18747	25544	33463	45819
690	1735	4268	7317	10285	14894	19167	26072	34145	46754



Pressure vs Torque Conversion Chart TLP-Series (PSI vs FT.LB)

PSI	TLP-2	TLP-4	TLP-8	TLP-13	TLP-19	TLP-30
	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb	Ft.lb
1500	243	579	1142	2009	2790	4578
1600	270	623	1304	2144	3056	4958
1800	303	701	1467	2412	3438	5577
2000	337	778	1630	2680	3820	6197
2200	371	856	1793	2948	4202	6817
2400	405	934	1956	3216	4584	7436
2600	438	1012	2119	3484	4966	8056
2800	472	1090	2282	3752	5348	8676
3000	506	1168	2445	4020	5730	9296
3200	540	1245	2608	4288	6112	9915
3400	573	1323	2771	4556	6494	10535
3600	607	1401	2934	4824	6876	11155
3800	641	1479	3097	5092	7258	11774
4000	674	1557	3260	5360	7640	12394
4200	708	1635	3423	5628	8022	13014
4400	742	1712	3586	5896	8404	13633
4600	776	1790	3749	6164	8786	14253
4800	809	1868	3912	6432	9168	14873
5000	843	1946	4075	6700	9550	15493
5200	877	2024	4238	6968	9931	16112
5400	910	2102	4401	7236	10313	16732
5600	944	2180	4564	7504	10695	17352
5800	978	2257	4727	7772	11077	17971
6000	1012	2335	4830	8040	11459	18591
6200	1045	2413	5053	8308	11841	19211
6400	1079	2491	5216	8576	12223	19830
6600	1113	2569	5379	8844	12605	20450
6800	1146	2647	5542	9112	12987	21070
7000	1180	2724	5705	9380	13369	21690
7200	1214	2802	5868	9648	13751	22309
7400	1248	2880	6031	9916	14133	22929
7600	1281	2958	6194	10184	14515	23549
7800	1315	3036	6357	10452	14897	24168
8000	1349	3114	6520	10720	15279	24788
8200	1383	3191	6683	10988	15661	25408
8400	1416	3269	6846	11256	16043	26027
8600	1450	3347	7009	11524	16425	26647
8800	1484	3425	7172	11792	16807	27267
9000	1517	3503	7335	12060	17189	27887
9200	1551	3581	7498	12328	17571	28506
9400	1585	3658	7661	12596	17953	29126
9600	1619	3736	7824	12864	18335	29746
9800	1652	3814	7987	13132	18717	30365
10000	1686	3892	8150	13400	19099	30985



Pressure vs Torque Conversion Chart TLP-Series (BAR vs NM)

BAR	TLP-2	TLP-4	TLP-8	TLP-13	TLP-19	TLP-30
	NM	NM	NM	NM	NM	NM
103	329	795	1548	2724	3783	6207
110	366	847	1768	2907	4143	6722
124	411	950	1989	3270	4661	7561
138	457	1055	2210	3634	5179	8402
152	503	1161	2431	3997	5697	9243
166	549	1266	2652	4360	6215	10082
179	594	1372	2873	4724	6733	10922
193	640	1478	3094	5087	7251	11763
207	686	1584	3315	5450	7769	12604
221	732	1688	3536	5814	8287	13443
234	777	1794	3757	6177	8805	14284
248	823	1900	3978	6540	9323	15124
262	869	2005	4199	6904	9841	15963
276	914	2111	4420	7267	10358	16804
290	960	2217	4641	7631	10876	17645
303	1006	2321	4862	7664	11394	18484
317	1052	2427	5083	8357	11912	19324
331	1097	2533	5304	8721	12430	20165
345	1143	2638	5525	9084	12948	21006
359	1189	2744	5746	9447	13465	21845
372	1234	2850	5967	9811	13983	22686
389	1280	2956	6188	10174	14500	23526
400	1326	3060	6409	10537	15018	24365
414	1372	3166	6630	10901	15536	25206
428	1417	3272	6851	11264	16054	26047
441	1463	3377	7072	11627	16572	26886
455	1509	3483	7293	11991	17090	27726
469	1554	3589	7514	12354	17608	28567
483	1600	3693	7735	12718	18126	29408
497	1646	3799	7956	13081	18644	30247
510	1692	3905	8177	13444	19162	31088
524	1737	4011	8398	13808	19680	31928
538	1783	4116	8619	14171	20198	32767
552	1829	4222	8840	14534	20716	33608
566	1875	4326	9061	14898	21233	34449
579	1920	4432	9282	15261	21751	35288
593	1966	4538	9503	15624	22269	36128
607	2012	4644	9724	15988	22787	36969
621	2057	4749	9945	16351	23305	37810
634	2103	4855	10166	16715	23823	38649
648	2149	4960	10387	17078	24341	39490
662	2195	5065	10608	17441	24859	40330
676	2240	5171	10829	17805	25377	41169
690	2286	5277	11050	18168	25895	42010



Pressure vs Torque Conversion Chart TST-Series (PSI vs FT.LB)

PSI	TST-2	TST-2	TST-4	TST-4	TST-9
	27 - 46 mm	50 - 60 mm	27 - 65 mm	70 - 80 mm	70 - 90 mm
1000	128	157	362	393	807
1200	153	188	435	471	1014
1400	179	220	507	550	1183
1600	204	251	580	628	1352
1800	230	283	652	707	1521
2000	255	314	725	785	1690
2200	281	345	797	864	1859
2400	335	388	930	966	2143
2600	363	420	1007	1047	2321
2800	391	452	1084	1127	2500
3000	419	485	1162	1208	2678
3200	447	517	1239	1288	2857
3400	475	549	1317	1369	3035
3600	503	582	1394	1449	3214
3800	547	619	1491	1530	3308
4000	576	652	1570	1651	3482
4200	604	684	1648	1733	3657
4400	633	717	1726	1816	3831
4600	662	749	1805	1898	4005
4800	691	782	1883	1981	4179
5000	720	815	1962	2063	4353
5200	754	846	2040	2146	4664
5400	783	878	2119	2228	4843
5600	812	911	2197	2311	5022
5800	841	943	2276	2393	5202
6000	870	976	2354	2476	5381
6200	899	1008	2433	2558	5560
6400	928	1041	2511	2641	5740
6600	957	1073	2590	2723	5919
6800	986	1100	2668	2806	6098
7000	1015	1133	2747	2888	6278
7200	1044	1165	2825	2971	6457
7400	1073	1197	2904	3053	6637
7600	1102	1230	2982	3136	6816
7800	1131	1262	3061	3219	6995
8000	1160	1294	3139	3301	7175
8200	1177	1337	3291	3457	7600
8400	1205	1370	3372	3541	7785
8600	1234	1403	3452	3626	7971
8800	1263	1435	3532	3710	8156
9000	1291	1468	3612	3794	8342
9200	1320	1501	3693	3879	8527
9400	1349	1528	3773	3963	8712
9600	1377	1561	3853	4047	8898
9800	1406	1593	3934	4132	9083
10000	1435	1626	4014	4216	9268



Pressure vs Torque Conversion Chart TST-Series (BAR vs NM)

BAR	TST-2	TST-2	TST-4	TST-4	TST-9
	27 - 46 mm	50 - 60 mm	27 - 65 mm	70 - 80 mm	70 - 90 mm
69	174	213	491	533	1094
83	207	255	590	639	1375
97	243	298	687	746	1604
110	277	340	786	851	1833
124	312	384	884	959	2062
138	346	426	983	1064	2291
152	381	468	1081	1171	2520
166	454	526	1261	1310	2906
179	492	569	1365	1420	3147
190	530	613	1470	1528	3390
207	568	658	1575	1638	3631
221	606	701	1680	1746	3874
234	644	744	1786	1856	4115
248	682	789	1890	1965	4358
262	742	839	2022	2074	4485
276	781	884	2129	2238	4721
290	819	927	2234	2350	4958
303	858	972	2340	2462	5194
317	898	1016	2447	2573	5430
331	937	1060	2553	2686	5666
345	976	1105	2660	2797	5902
359	1022	1147	2766	2910	6324
372	1062	1190	2873	3021	6566
386	1101	1235	2979	3133	6809
400	1140	1279	3086	3244	7053
414	1180	1323	3192	3357	7296
428	1219	1367	3299	3468	7538
441	1258	1411	3404	3581	7782
455	1298	1455	3512	3692	8025
469	1337	1491	3617	3804	8268
483	1376	1536	3724	3916	8512
490	1415	1580	3830	4028	8755
510	1455	1623	3937	4139	8999
524	1494	1668	4043	4252	9241
538	1533	1711	4150	4364	9484
552	1573	1754	4256	4476	9728
566	1596	1813	4462	4687	10304
579	1634	1857	4572	4801	10555
593	1673	1902	4680	4916	10807
607	1712	1946	4789	5030	11058
621	1750	1990	4897	5144	11310
634	1790	2035	5007	5259	11561
648	1829	2072	5116	5373	11812
662	1867	2116	5224	5487	12064
676	1906	2160	5334	5602	12315
690	1946	2205	5442	5716	12566

BOLT TIGHTENING SEQUENCE

No. of Bolts	Sequentially Clockwise Sequence
4	1.3.2.4
8	1.5.3.7 → 2.6.4.8
12	1.7.4.10 → 2.8.5.11 → 3.9.6.12
16	1.9.5.13 → 3.11.7.15 → 2.10.6.14 → 4.12.8.16
20	1.11.6.16 → 3.13.8.18 → 5.15.10.20 → 2.12.7.17 → 4.14.9.19
24	1.13.7.19 → 4.16.10.22 → 2.14.8.20 → 5.17.11.23 → 3.15.9.21 → 6.18.12.24
28	1.15.8.22 → 4.18.11.25 → 6.20.13.27 → 2.16.9.23 → 5.19.12.26 → 7.21.14.28 → 3.17.10.24
32	1.17.9.25 → 5.21.13.29 → 3.19.11.27 → 7.23.15.31 → 2.18.10.26 → 6.22.14.30 → 4.20.12.28 → 8.24.16.32
36	1.2.3 → 19.20.21 → 10.11.12 → 28.29.30 → 4.5.6 → 22.23.24 → 13.14.15 → 31.32.33 → 7.8.9 → 25.26.27 → 16.17.18 → 34.35.36
40	1.2.3.4 → 21.22.23.24 → 13.14.15.16 → 33.34.35.36 → 5.6.7.8 → 25.26.27.28 → 17.18.19.20 → 37.38.39.40 → 9.10.11.12 → 29.30.31.32
44	1.2.3.4 → 25.26.27.28 → 13.14.15.16 → 37.38.39.40 → 5.6.7.8 → 29.30.31.32 → 17.18.19.20 → 41.42.43.44 → 9.10.11.12 → 33.34.35.36 → 21.22.23.24
48	1.2.3.4 → 25.26.27.28 → 13.14.15.16 → 37.38.39.40 → 5.6.7.8 → 29.30.31.32 → 17.18.19.20 → 41.42.43.44 → 9.10.11.12 → 33.34.35.36 → 21.22.23.24 → 45.46.47.48
52	1.2.3.4 → 29.30.31.31 → 13.14.15.16 → 41.42.43.44 → 5.6.7.8 → 33.34.35.36 → 17.18.19.20 → 45.46.47.48 → 21.22.23.24 → 49.50.51.52 → 25.26.27.28 → 9.10.11.12 → 37.38.39.40
56	1.2.3.4 → 29.30.31.32 → 13.14.15.16 → 41.42.43.44 → 21.22.23.24 → 49.50.51.52 → 9.10.11.12 → 37.38.39.40 → 25.26.27.28 → 53.54.55.56 → 17.18.19.20 → 45.46.47.48 → 5.6.7.8 → 33.34.35.36
60	1.2.3.4 → 29.30.31.32 → 45.46.47.48 → 13.14.15.16 → 5.6.7.8 → 37.38.39.40 → 21.22.23.24 → 53.54.55.56 → 9.10.11.12 → 33.34.35.36 → 49.50.51.52 → 17.18.19.20 → 41.42.43.44 → 57.58.59.60 → 25.26.27.58
64	1.2.3.4 → 33.34.35.36 → 17.18.19.20 → 49.50.51.52 → 9.10.11.12 → 41.42.43.44 → 25.26.27.28 → 57.58.59.60 → 5.6.7.8 → 37.38.39.40 → 21.22.23.24 → 53.54.55.56 → 13.14.15.16 → 45.46.47.48 → 29.30.31.32 → 61.62.63.64
68	1.2.3.4 → 37.38.39.40 → 21.22.23.24 → 53.54.55.56 → 9.10.11.12 → 45.46.47.48 → 29.30.31.32 → 61.62.63.64 → 17.18.19.20 → 57.58.59.60 → 33.34.35.36 → 5.6.7.8 → 41.42.43.44 → 13.14.15.16 → 49.50.51.52 → 25.26.27.28 → 65.66.67.68

YIELD PERCENTAGE

SPECIFICATION	GRADE	DIAMETER (INCHES)	MINIMUM YIELD (PSI)
ASTM A193	B5		80,000
	B6		85,000
	B7	< 2.1/2"	105,000
		2.1/2" – 4"	95,000
		4" – 7"	75,000
	B7M	< 2.1/2"	800,000
	B8- CL 1		30,000 – 55,000
	B8 – CL 2		50,000 – 100,000
	B16	< 2.1/2"	105,000
		2.1/2" – 4"	95,000
		4" – 7"	85,000

Torque Values for Isolating Gaskets (Pikotek) on ASME B16.5 and ASME B16.47 Series A & B, Class 150 Through Class 2500 Flanges

Stud Bolt Size (inch)	Torque Value (Ft.lb)
1/2	30
9/16	45
5/8	60
3/4	100
7/8	160
1	245
1.1/8	355
1.1/4	500
1.3/8	680
1.1/2	800
1.5/8	1100
1.3/4	1500
1.7/8	2000
2	2200
2.1/4	3180
2.1/2	4400
2.3/4	5920
3	7720
3.1/4	8400
3.1/2	9000
3.3/4	9600
4	10000

Recommended Torque Values for Two-Piece, Four Bolt Clamp Connector using B7/B7M lubricated bolting (Coefficient of friction = 0.11)

Clamp size (inch)	Stud Bolt (inch)	Torque (ft.lbs)
Standard Clamp Sizes		
2	0.75	55
3	0.75	65
4	0.875	100
5	1	160
6	1.125	210
8	1.25	300
Heavy Duty Series		
2	0.875	136
3	0.875	163
4	1	190
8	1.375	529
10	1.625	949
12	1.75	1220

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