

TRITORC

PIPELINE SOLUTIONS



BOLTING SOLUTIONS



THE BOLTING EXPERT

A largely manufacturing based firm that we are, we constantly gear towards engineering the finest products available.

TRITORC products are calibrated and certified at an in-house calibration facility that ensures torque testing of the final products. Our R&D experts provide constant input with which we design some of the extensively used tools in the service industry. We are confident that Our highly trained maintenance teams can tackle every issue for our clients to their complete satisfaction. TRITORC products are known for the superior quality, durability, robustness and flawless finish -

“We bring Perfection and Innovation to the next level.”

Currently serving USA, Europe, Africa, Middle East and Southeast Asia, we are keen at extending the reach...

INDUSTRY SECTORS THAT WE SERVE:

- Petrochemicals & Refineries
- Oil Exploration
- Power Stations
- Wind Power
- Chemical Industries
- Mines & More

Backed by a team of experts that is proficient in various technical, management and customer service areas, TRITORC raises the bar in both Sales & Service Industries.

TRITORC also provides Rental Fleets that are provisioned with the equipments needed to support a project. This is an added facility that works hand in hand with the Partner to Progress Program.



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HYDRAULIC TORQUE WRENCHES SQUARE DRIVE - TSL SERIES

TRITORC manufactures simple, faster, efficient and reliable Hydraulic Torque Wrenches that are user friendly.

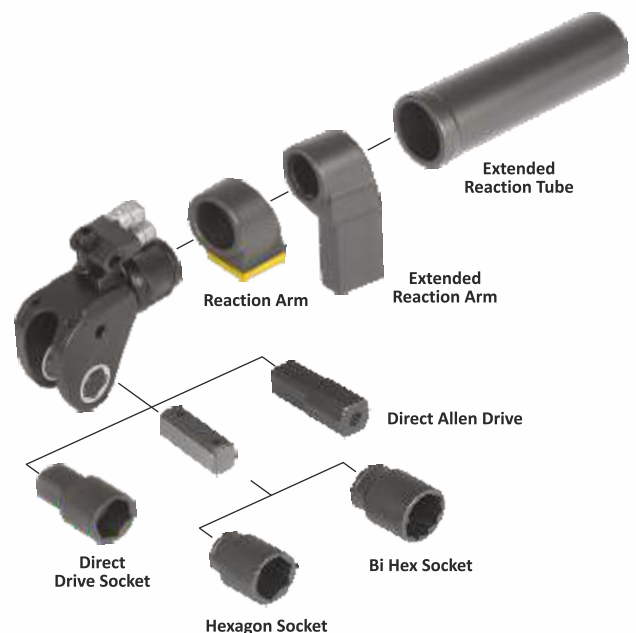
Hydraulic Torque Wrenches are the work horse of the bolting world, in stock with proven performance, our wrenches have a wide variety of applications.

- Available torque ranges up to 50,000 Ft. Lbs. with maximum operating pressure of 10000 PSI (700 bar).
- TRITORC Hydraulic Torque Wrenches maintain an accuracy of $\pm 3\%$ while torquing.
- Provision for lifting tools / handle.
- Standard spline design with torque effective length for exact PCD engagement of reaction arm.
- High strength aerospace aluminium material for light weight and stronger body design with heat treated components.
- Scratch proof hard anodized body and reaction arm.
- High pressure seal design.
- Quick push through drive for ease of loosening and tightening.
- Industries that this tool finds utility in includes Oil and Gas, Refineries, Pipelines, Power Generation, Boiler Industry, Turbines and many more.

TECHNICAL DATA

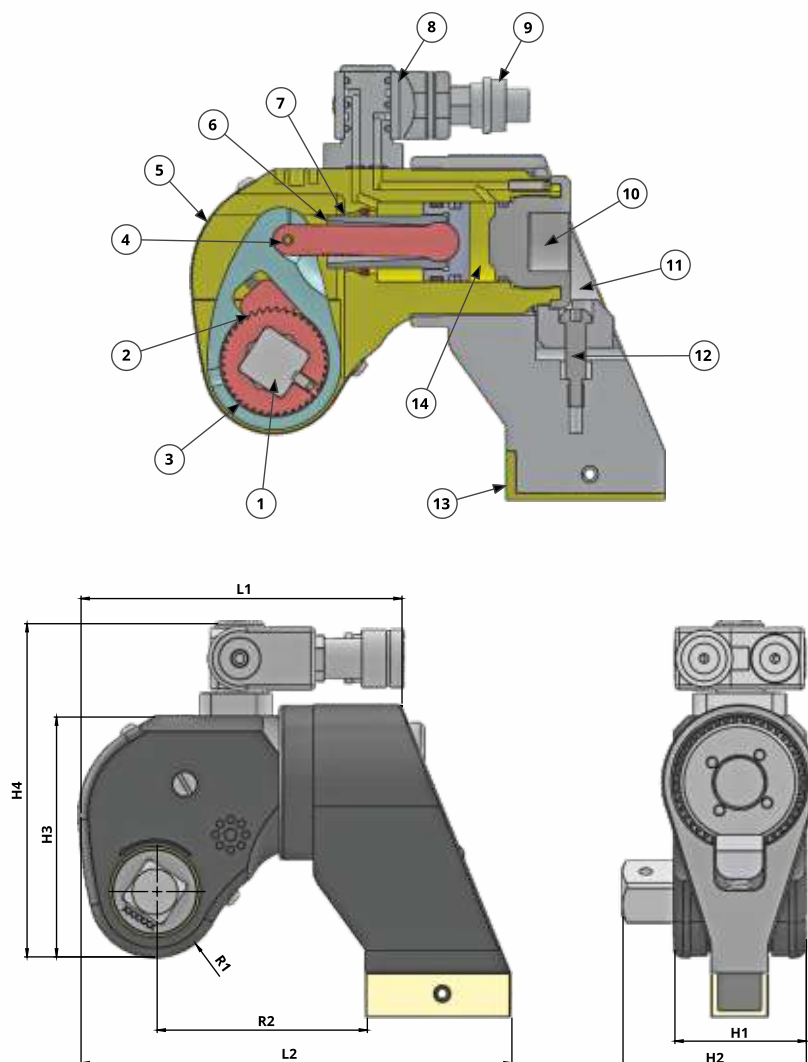
		TSL-07	TSL-1	TSL-3	TSL-5	TSL-8	TSL-10	TSL-15	TSL-20	TSL-25	TSL-35	TSL-50
	Sq. Dr.	3/4"	3/4"	1"	1.1/2"	1.1/2"	1.1/2"	2.1/2"	2.1/2"	2.1/2"	2.1/2"	2.1/2"
Min. Torque	Nm	112	183	450	737	1078	1551	2176	3045	3472	4866	6925
	Ft. Lbs	81	134	328	536	783	1054	1581	2212	2523	3535	5030
Max. Torque	Nm	1120	1837	4500	7379	10780	15519	22505	30461	34725	48666	69247
	Ft. Lbs	814	1340	3280	5360	7830	10540	15807	22120	25230	35350	50300
Tool Weight	Kg	1.8	2.5	4.9	9.5	10.8	14.7	23	26	35	50	65
	Lbs	4	5.5	10.8	20.9	23.8	32.4	50.7	57.3	77.2	110.3	143.3

Note: Dimensions are subject to change.



HYDRAULIC TORQUE WRENCHES SQUARE DRIVE - TSL SERIES

- 01) Quick push through drive for ease of loosening and tightening.
- 02) Fine Ratchet and Pawl for better engagement.
- 03) Multi tooth drive segment ensures and engagement upto 32°.
- 04) Balanced drive Rod - Side load free piston movement.
- 05) Laser engraved torque chart in (Nm & ft lbs).
- 06) Hard chrome plating on piston rod ensures better wear resistance of rod seal.
- 07) Self lubricating low Nickel Bronze drive bush protects the body from wear.
- 08) 360° x 180° swivel for Hydraulic Couplers offer better degree of movement.
- 09) Leak proof quick connect couplers for easy and safe operation.
- 10) End-cap design for sufficient back pressure for smooth piston forward force.
- 11) Rigid reaction arm suitable for heavy load application.
- 12) Simple design reaction arm release button for ease of operations.
- 13) Alloy Steel reaction boot (Available in multi-color option).
- 14) Cold worked cylinder bore for longer life and super finish for long working conditions.



DIMENSIONAL DATA

	TSL-07	TSL-1	TSL-3	TSL-5	TSL-8	TSL-10	TSL-15	TSL-20	TSL-25	TSL-35	TSL-50
Body Length (L1) mm (inch)	117 4.61	143 5.63	178 7.01	213 8.39	226 8.90	246 9.69	272 10.71	309 12.17	325 12.80	372 14.65	387 15.24
Overall Length (L2) mm (inch)	139 5.47	171 6.73	228 8.98	275 10.83	292 11.50	317 12.48	352 13.86	387 15.24	402 15.83	466 18.35	518 20.39
Tool Width (H1) mm (inch)	42 1.65	52 2.05	69.5 2.74	82.5 3.25	84 3.31	102 4.02	111 4.37	128 5.04	136.5 5.37	153 6.02	167.5 6.59
Overall Width (H2) mm (inch)	67 2.64	75 2.95	97 3.82	122 4.80	132 5.20	141 5.55	185 7.28	203 7.99	207 8.15	226 8.90	239 9.41
Tool Height (H3) mm (inch)	80 3.15	96 3.78	127 5.00	149 5.87	168 6.61	182 7.17	197 7.76	213 8.39	252 9.92	283 11.14	301 11.85
Overall Height (H4) mm (inch)	117 4.61	133 5.24	177 6.97	199 7.83	218 8.58	232 9.13	247 9.72	262 10.31	301 11.85	333 13.11	351 13.82
Tool Radius (R1) mm (inch)	21.5 0.85	26.3 1.04	34.5 1.36	39 1.54	47 1.85	51 2.01	57.5 2.26	59 2.32	66 2.60	77.5 3.05	80.5 3.17
Reaction Reach (R2) mm (inch)	67 2.64	84 3.31	111 4.37	140 5.51	148 5.83	153 6.02	170 6.69	187 7.36	202 7.95	241 9.49	258 10.16

Note: Dimensions are subject to change.

HYDRAULIC TORQUE WRENCHES HEX DRIVE - THL SERIES

TRITORC THL Series Direct Hex Drive Hydraulic Torque Wrenches are designed for extreme tight spaces where normal tools cannot reach. The light weight and compact hydraulic cylinder is made of high strength alloy steel. There are 5 Models in THL Series ranging from 200 - 35000 ft lbs. All models have small nose radius which allows the tool to fit in constraint spaces.



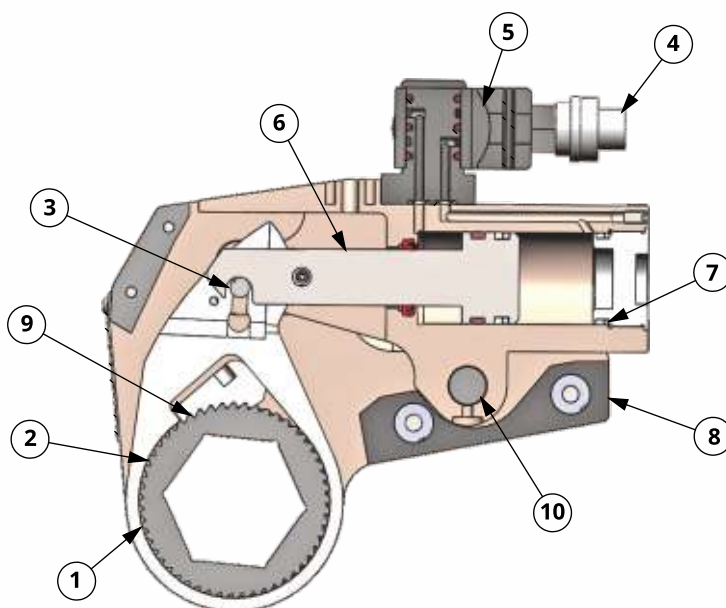
- The rod engages in the first stroke thus removing any backlash.
- The ratchet and pawl have a finer tooth for better engagement and torqueing.
- The quick connectors for the hydraulic lines are leak-resistant for safety even under pressure.

TECHNICAL DATA

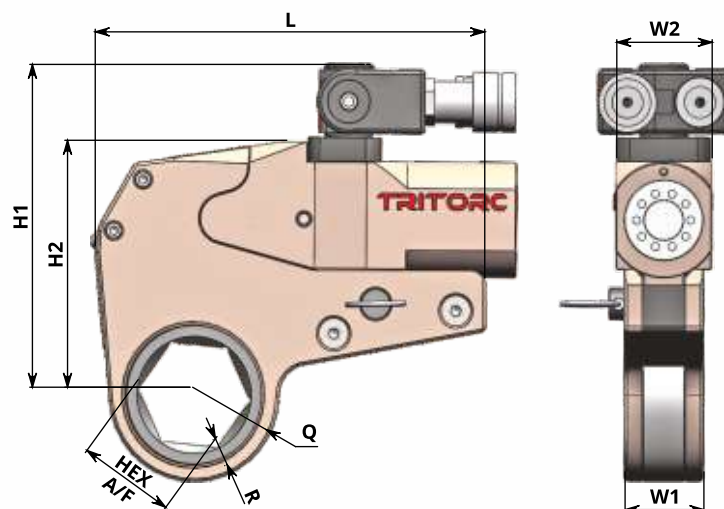
Technical Data	Units	THL-2		THL-4		THL-8		THL-14		THL-32	
Min. Torque	Nm	273	295	607	677	1228	1589	2162	2440	5026	5351
	Ft.Lbs	198	214	441	492	892	1154	1571	1773	3651	3887
Max. Torque	Nm	2728	2952	6069	6773	12281	15890	21620	24399	50258	53512
	Ft.Lbs	1983	2142	4409	4918	8921	11543	15706	17725	36511	38872
Hex Across Flat	mm	19-48	49-60	33-56	57-80	41-80	81-105	50-100	101-120	90-145	146-175
	Inch	3/4 - 1.7/8	1.15/16 - 2.3/8	1.5/16 - 2.3/16	2.1/4 - 3.1/8	1.5/8 - 3.1/8	3.3/16 - 4.1/8	2 - 3.7/8	3.15/16 - 4.3/4	3.7/8 - 5.11/16	5.3/4 - 6.7/8
Drive Unit Weight	Kg	1.5	1.5	3.2	3.2	5.3	5.3	9.8	9.8	15	15
	Lbs.	3.3	3.3	7.1	7.1	11.7	11.7	21.6	21.6	33.1	33.1
Ratchet Unit Weight	Kg	1.7	1.85	4.1	4.2	8.7	8.8	11.5	15.5	32	35
	Lbs.	3.7	4.1	9	9.3	19.2	19.4	25.4	34.2	70.6	77.2

Note: Dimensions are subject to change.

- 1) Self-lubricating low Nickel Bronze for drive bush to protect body from use.
- 2) Fine Ratchet and Pawl for better engagement.
- 3) Auto engagement of rod in first stroke
- 4) Leak proof quick connecting coupler.
- 5) 360°x180° swivel for better degree of movement.
- 6) Hard chrome plating of piston rod for wear resistance.
- 7) High quality seals for high pressure.
- 8) Torsion free reaction pad.
- 9) Never-Lock drive pawl.
- 10) Lock Pin.



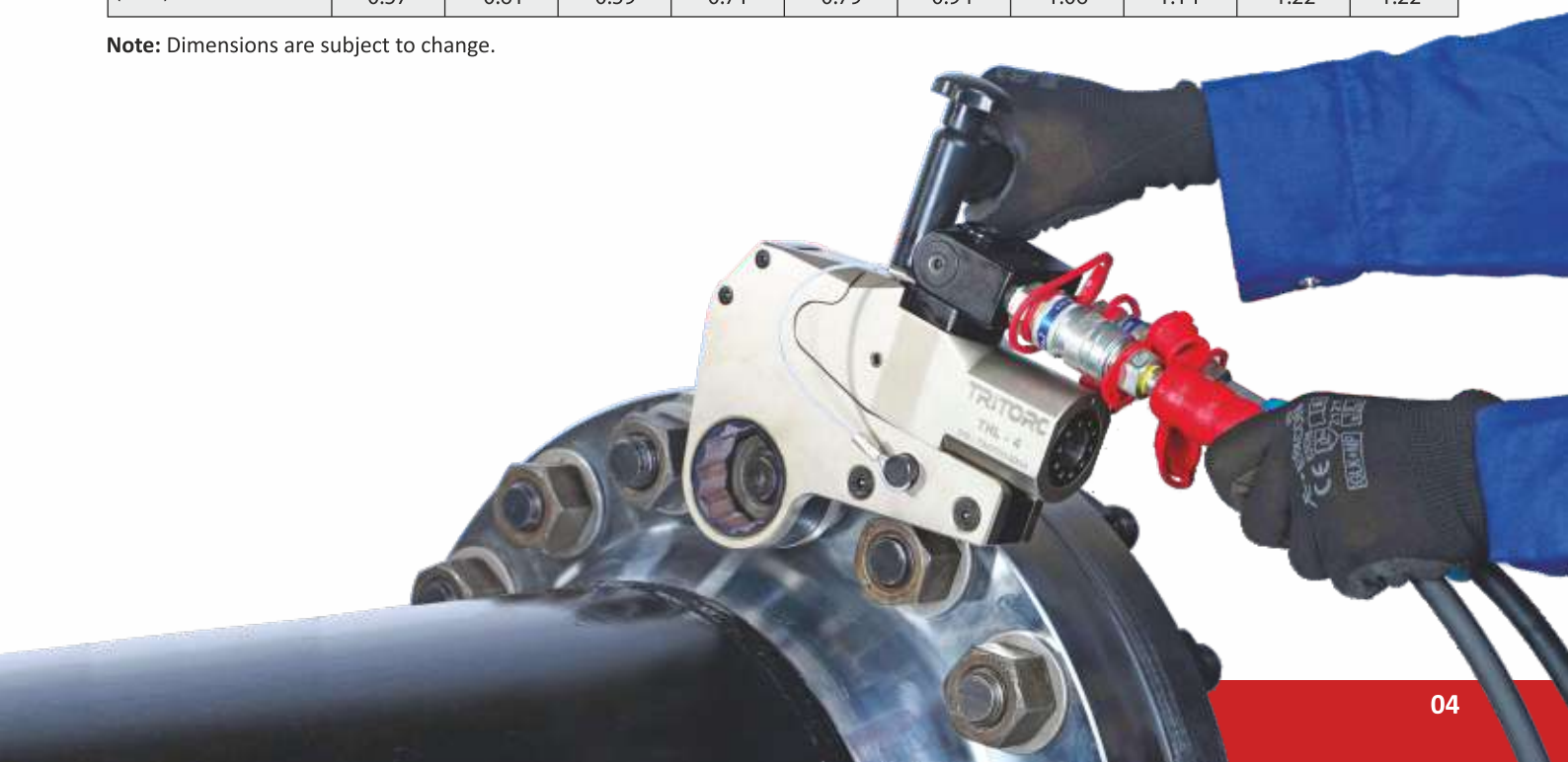
HYDRAULIC TORQUE WRENCHES HEX DRIVE - THL SERIES



DIMENSIONAL DATA

Technical Data	THL-2		THL-4		THL-8		THL-14		THL-32	
Overall Length L mm (inch)	164 6.46	169 6.65	202 7.95	218 8.58	267 10.51	285 11.22	325 12.80	329 12.95	408 16.06	443 17.44
H1 mm (inch)	132 5.20	143 5.63	168 6.61	184 7.24	198 7.80	223 8.78	237 9.33	251 9.88	299 11.77	321 12.64
H2 mm (inch)	99 3.90	110 4.33	129 5.08	144 5.67	159 6.26	184 7.24	193 7.60	209 8.23	259 10.20	281 11.06
W1 mm (inch)	32.2 1.27	32.2 1.27	40.6 1.60	40.6 1.60	52.5 2.07	52.5 2.07	63 2.48	63 2.48	83 3.27	83 3.27
W2 mm (inch)	34.4 1.35	34.4 1.35	49.5 1.95	49.5 1.95	61.5 2.42	61.5 2.42	81 3.19	81 3.19	93 3.66	93 3.66
(Q) Nose Radius mm (inch)	22 - 43 0.87-1.69	43 - 46 1.69-1.81	33 - 46 1.30-1.81	46 - 60 1.81-2.36	42 - 63 1.65-2.48	63 - 81 2.48-3.19	53 - 80 2.09-3.15	80 - 92 3.15-3.62	90 - 114 3.54-4.49	114 - 128 4.49-5.04
R min mm (inch)	9.5 0.37	10 0.39	10 0.39	13 0.51	12 0.47	20 0.79	17 0.67	22 0.87	25 0.98	25 0.98
R max mm (inch)	14.5 0.57	15.5 0.61	15 0.59	18 0.71	20 0.79	24 0.94	27 1.06	29 1.14	31 1.22	31 1.22

Note: Dimensions are subject to change.



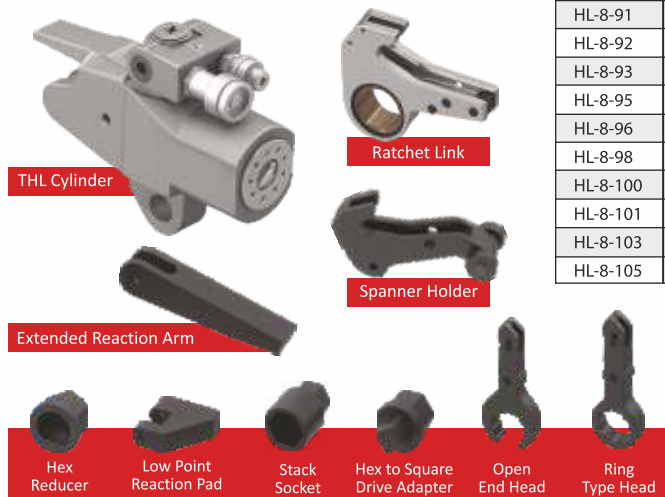
THL LINK SELECTION

- Compact design with longer arm improves the reliability and application of our THL.
- More accurate and easier to use, since the wrench directly operates on the nuts.
- 360x160 degree swivel or 360x360 degree swivel allows the wrench to operate freely in confined areas.



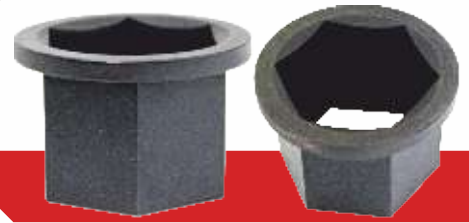
THL-2 Link	Hex Size		THL-4 Link	Hex Size		THL-8 Link	Hex Size		THL-14 Link	Hex Size		THL-32 Link	Hex Size	
	Inch	mm		Inch	mm		Inch	mm		Inch	mm		Inch	mm
HL-2-19	3/4	19	HL-4-33	1-5/16		HL-8-41	1-5/8	41	HL-14-50		50	HL-32-108	4-1/4	
HL-2-20	13/16		HL-4-34		34	HL-8-42	1-11/16		HL-14-51	2		HL-32-109	4-5/16	
HL-2-21		21	HL-4-35	1-3/8		HL-8-44	1-3/4		HL-14-52	2-1/16		HL-32-110		110
HL-2-22	7/8	22	HL-4-36		36	HL-8-46	1-13/16	46	HL-14-53	2-1/8		HL-32-111	4-3/8	
HL-2-23	15/16		HL-4-37	1-7/16		HL-8-47	1-7/8		HL-14-55	2-3/16	55	HL-32-112	4-7/16	
HL-2-24		24	HL-4-38	1-1/2	38	HL-8-49	1-15/16	49	HL-14-57	2-1/4		HL-32-114	4-1/2	
HL-2-25	1		HL-4-39	1-9/16		HL-8-50		50	HL-14-58	2-5/16		HL-32-115		115
HL-2-27	1-1/16	27	HL-4-41	1-5/8	41	HL-8-51	2		HL-14-60	2-3/8	60	HL-32-116	4-9/16	
HL-2-28	1-1/8		HL-4-42	1-11/16		HL-8-52	2-1/16		HL-14-62	2-7/16		HL-32-117	4-5/8	117
HL-2-30	1-3/16	30	HL-4-44	1-3/4		HL-8-54	2-1/8		HL-14-63	2-1/2		HL-32-119	4-11/16	
HL-2-31	1-1/4"		HL-4-46	1-13/16	46	HL-8-55	2-3/16	55	HL-14-65	2-9/16	65	HL-32-120		120
HL-2-32		32	HL-4-47	1-7/8		HL-8-57	2-1/4		HL-14-66	2-5/8		HL-32-121	4-3/4	
HL-2-33	1-5/16		HL-4-49	1-15/16	49	HL-8-58	2-5/16		HL-14-68	2-11/16		HL-32-122	4-13/16	
HL-2-34		34	HL-4-50		50	HL-8-60	2-3/8	60	HL-14-70	2-3/4	70	HL-32-123	4-7/8	
HL-2-35	1-3/8	35	HL-4-51	2		HL-8-61	2-7/16		HL-14-71	2-13/16		HL-32-125		125
HL-2-36		36	HL-4-52	2-1/16		HL-8-63	2-1/2		HL-14-73	2-7/8		HL-32-126	4-15/16	
HL-2-37	1-7/16		HL-4-53	2-1/8		HL-8-65	2-9/16	65	HL-14-75	2-15/16	75	HL-32-127	5	127
HL-2-38	1-1/2	38	HL-4-55	2-3/16	55	HL-8-66	2-5/8		HL-14-76	3		HL-32-128	5-1/16	
HL-2-39	1-9/16		HL-4-57	2-1/4		HL-8-68	2-11/16		HL-14-77	3-1/16		HL-32-130	5-1/8	
HL-2-41	1-5/8	41	HL-4-58	2-5/16		HL-8-70	2-3/4	70	HL-14-79	3-1/8		HL-32-131	5-3/16	
HL-242	1-11/16		HL-4-60	2-3/8"	60	HL-8-71	2-13/16		HL-14-80		80	HL-32-133	5-1/4	
HL-2-44	1-3/4		HL-4-61	2-7/16		HL-8-73	2-7/8		HL-14-81	3-3/16		HL-32-134	5-5/16	135
HL-2-46	1-13/16	46	HL-4-63	2-1/2		HL-8-75	2-15/16	75	HL-14-82	3-1/4		HL-32-136	5-3/8	
HL-2-47	1-7/8		HL-4-65	2-9/16	65	HL-8-76	3		HL-14-84	3-5/16		HL-32-138	5-7/16	
HL-2-49	1-15/16	49	HL-4-66	2-5/8		HL-8-77	3-1/16		HL-14-85		85	HL-32-140	5-1/2	140
HL-2-50		50	HL-4-68	2-11/16		HL-8-79	3-1/8		HL-14-86	3-3/8		HL-32-141	5-9/16	
HL-2-51	2		HL-4-70	2-3/4	70	HL-8-80		80	HL-14-87	3-7/16		HL-32-142	5-5/8	
HL-2-52	2-1/16		HL-4-71	2-13/16		HL-8-81	3-3/16		HL-14-89	3-1/2		HL-32-144	5-11/16	
HL-2-54	2-1/8		HL-4-73	2-7/8		HL-8-82	3-1/4		HL-14-90		90	HL-32-145		145
HL-2-55	2-3/16	55	HL-4-75	2-15/16	75	HL-8-84	3-5/16		HL-14-91	3-9/16		HL-32-146	5-3/4	
HL-2-57	2-1/4		HL-4-76	3		HL-8-85		85	HL-14-92	3-5/8		HL-32-147	5-13/16	
HL-2-59	2-5/16		HL-4-77	3-1/16		HL-8-86	3-3/8		HL-14-93	3-11/16		HL-32-149	5-7/8	
HL-2-60	2-3/8	60	HL-4-79	3-1/8		HL-8-87	3-7/16		HL-14-95	3-3/4	95	HL-32-150		150
			HL-4-80		80	HL-8-88	3-1/2		HL-14-96	3-13/16		HL-32-151	5-15/16	
						HL-8-90		90	HL-14-98	3-7/8		HL-32-152	6	
						HL-8-91	3-9/16		HL-14-100	3-15/16	100	HL-32-153	6-1/16	
						HL-8-92	3-5/8		HL-14-101	4		HL-32-155		155
						HL-8-93	3-11/16		HL-14-104	4-1/6		HL-32-156	6-1/8	
						HL-8-95	3-3/4	95	HL-14-105	4-1/8	105	HL-32-157	6-3/16	
						HL-8-96	3-13/16		HL-14-106	4-3/16		HL-32-158	6-1/4	
						HL-8-98	3-7/8		HL-14-107	4-1/4		HL-32-160		160
						HL-8-100	3-15/16	100	HL-14-109	4-5/16		HL-32-161	6-5/16	
						HL-8-101	4		HL-14-110		110	HL-32-162	6-3/8	
						HL-8-103	4-1/16		HL-14-111	4-3/8		HL-32-163	6-7/16	
						HL-8-105	4-1/8	105	HL-14-112	4-7/16		HL-32-165	6-1/2	165
									HL-14-114	4-1/2		HL-32-166	6-9/16	
									HL-14-115		115	HL-32-168	6-5/8	
									HL-14-117		117	HL-32-170	6-11/16	170
												HL-32-171	6-3/4	
												HL-32-173	6-13/16	
												HL-32-174	6-7/8	
												HL-32-175		175

ACCESSORIES



HEXAGON REDUCER BUSHES

ACCESSORIES FOR HYDRAULIC TORQUE WRENCH



H = Height | IMPERIAL

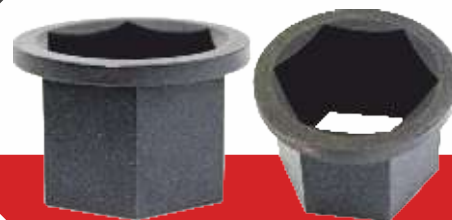
Outside A/F Size	Inside A/F Size	THL-2 Height - 1.25" Model No.	THL-4 Height - 1.625" Model No.	THL-8 Height - 2.1" Model No.	THL-14 Height - 2.55" Model No.	THL-32 Height - 3.34" Model No.
1 1/4"	1 1/16"	HR-2-125-106	HR-4-125-106			
1 7/16"	1 1/16"	HR-2-143-106	HR-4-143-106			
1 7/16"	1 1/4"	HR-2-143-425	HR-4-143-125			
1 5/8"	1 1/4"	HR-2-162-125	HR-4-162-125			
1 5/8"	1 7/16"	HR-2-162-143	HR-4-162-143			
1 13/16"	1 7/16"	HR-2-181-143	HR-4-181-143			
1 13/16"	1 5/8"	HR-2-181-162	HR-4-181-162	HR-8-181-162		
2"	1 5/8"	HR-2-200-162	HR-4-200-162	HR-8-200-162		
2"	1 13/16"	HR-2-200-181	HR-4-200-181	HR-8-200-181		
2 3/16"	1 5/8"	HR-2-218-162	HR-4-218-162	HR-8-218-162		
2 3/16"	1 13/16"	HR-2-218-181	HR-4-218-181	HR-8-218-181		
2 3/16"	2"	HR-2-218-200	HR-4-218-200	HR-8-218-200		
2 3/8"	1 13/16"	HR-2-237-181	HR-4-237-181	HR-8-237-181		
2 3/8"	2"	HR-2-237-200	HR-4-237-200	HR-8-237-200	HR-14-237-200	
2 3/8"	1 3/16"	HR-2-237-218	HR-4-237-218	HR-8-237-218	HR-14-237-218	
2 9/16"	2"		HR-4-256-200	HR-8-256-200	HR-14-256-200	
2 9/16"	2 3/16"		HR-4-256-218	HR-8-256-218	HR-14-256-218	
2 9/16"	2 3/8"		HR-4-256-237	HR-8-256-237	HR-14-256-237	
2 3/4"	2 3/16"		HR-4-275-218	HR-8-275-218	HR-14-275-218	
2 3/4"	2 3/8"		HR-4-275-237	HR-8-275-237	HR-14-275-237	
2 3/4"	2 9/16"		HR-4-275-256	HR-8-275-256	HR-14-275-256	
2 15/16"	2 3/8"		HR-4-293-237	HR-8-293-237	HR-14-293-237	
2 15/16"	2 9/16"		HR-4-293-256	HR-8-293-256	HR-14-293-256	
2 15/16"	2 3/4"		HR-4-293-275	HR-8-293-275	HR-14-293-275	
3 1/8"	2 9/16"		HR-4-312-256	HR-8-312-256	HR-14-312-256	
3 1/8"	2 3/4"		HR-4-312-275	HR-8-312-275	HR-14-312-275	
3 1/8"	2 15/16"		HR-4-312-293	HR-8-312-293	HR-14-312-293	
3 1/2"	2 15/16"			HR-8-350-293	HR-14-350-293	
3 1/2"	3 1/8"			HR-8-350-312	HR-14-350-312	
3 7/8"	3 1/8"			HR-8-387-312	HR-14-387-312	
3 7/8"	3 1/2"			HR-8-387-350	HR-14-387-350	
4 1/8"	3 1/2"			HR-8-412-350	HR-14-412-350	
4 1/8"	3 7/8"			HR-8-412-387	HR-14-412-387	
4 5/8"	3 7/8"					
4 5/8"	4 1/4"					HR-32-462-425
5"	4 1/4"					HR-32-500-425
5"	4 5/8"					HR-32-500-462
5 5/16"	4 5/8"					HR-32-531-462
5 5/16"	5"					HR-32-531-500
5 3/4"	5"					HR-32-575-500
5 3/4"	5 3/8"					HR-32-575-573
6 1/8"	5 3/8"					HR-32-612-573
6 1/8"	5 3/4"					HR-32-612-575
6 1/2"	5 3/4"					HR-32-650-575
6 1/2"	6 1/8"					HR-32-650-612
6 7/8"	6 1/8"					HR-32-687-612
6 7/8"	6 1/2"					HR-32-687-650
7 3/16"	6 1/2"					HR-32-718-650
7 3/16"	6 7/8"					HR-32-718-687
7 7/16"	6 7/8"					HR-32-744-687
7 7/16"	7 3/16"					HR-32-744-718
7 5/8"	6 7/8"					HR-32-762-687
7 5/8"	7 7/16"					HR-32-762-744
7 7/8"	7 7/16"					HR-32-787-744
7 7/8"	7 5/8"					HR-32-787-762

To reduce the Female Hexagon A/F size of the THL Series, these Tritorc Hexagon Reducer Bushes offer an easy and economical solution. Just select your Outside A/F size (i.e. Ratchet Head A/F size) & the required inside A/F size to determine the Model Number.

Note: Customize sizes available at request.

HEXAGON REDUCER BUSHES

ACCESSORIES FOR HYDRAULIC TORQUE WRENCH



H = Height | METRIC

Outside A/F Size	Inside A/F Size	THL-2 Height - 32mm Model No.	THL-4 Height - 42mm Model No.	THL-8 Height - 53mm Model No.	THL-14 Height - 64mm Model No.	THL-32 Height - 85mm Model No.
30	24	HR-2-30-24				
32	24	HR-2-32-24				
32	27	HR-2-32-27				
36	30	HR-2-36-30				
41	36	HR-2-41-36	HR-4-41-36			
46	36	HR-2-46-36	HR-4-46-36			
46	41	HR-2-46-41	HR-4-46-41	HR-8-46-41		
50	41	HR-2-50-41	HR-4-50-41	HR-8-50-41		
50	46	HR-2-50-46	HR-4-50-46	HR-8-50-46		
55	41	HR-2-55-41	HR-4-55-41	HR-8-55-41		
55	46	HR-2-55-46	HR-4-55-46	HR-8-55-46		
55	50	HR-2-55-50	HR-4-55-50	HR-8-55-50		
60	46	HR-2-60-46	HR-4-60-46	HR-8-60-46		
60	50		HR-4-60-50	HR-8-60-50	HR-14-60-50	
60	55		HR-4-60-55	HR-8-60-55	HR-14-60-55	
65	50		HR-4-65-50	HR-8-65-50	HR-14-65-50	
65	55		HR-4-65-55	HR-8-65-55	HR-14-65-55	
65	60		HR-4-65-60	HR-8-65-60	HR-14-65-60	
70	55		HR-4-70-55	HR-8-70-55	HR-14-70-55	
70	60		HR-4-70-60	HR-8-70-60	HR-14-70-60	
70	65		HR-4-70-65	HR-8-70-65	HR-14-70-65	
75	60		HR-4-75-60	HR-8-75-60	HR-14-75-60	
75	65		HR-4-75-65	HR-8-75-65	HR-14-75-65	
75	70		HR-4-75-70	HR-8-75-70	HR-14-75-70	
80	65		HR-4-80-65	HR-8-80-65	HR-14-80-65	
80	70		HR-4-80-70	HR-8-80-70	HR-14-80-70	
80	75		HR-4-80-75	HR-8-80-75	HR-14-80-75	
85	70			HR-8-85-70	HR-14-85-70	
85	75			HR-8-85-75	HR-14-85-75	
85	80			HR-8-85-80	HR-14-85-80	
90	75			HR-8-90-75	HR-14-90-75	
90	80			HR-8-90-80	HR-14-90-80	
90	85			HR-8-90-85	HR-14-90-85	
95	80			HR-8-95-80	HR-14-95-80	
95	85			HR-8-95-85	HR-14-95-85	
95	90			HR-8-95-90	HR-14-95-90	
100	85			HR-8-100-85	HR-14-100-85	
100	90			HR-8-100-90	HR-14-100-90	
100	95			HR-8-100-95	HR-14-100-95	
105	90			HR-8-105-90	HR-14-105-90	
105	95			HR-8-105-95	HR-14-105-95	
105	100			HR-8-105-100	HR-14-105-100	
110	95				HR-14-110-95	HR-32-110-95
110	100				HR-14-110-100	HR-32-110-100
110	105				HR-14-110-105	HR-32-110-105
115	100				HR-14-115-100	HR-32-115-100
115	105				HR-14-115-105	HR-32-115-105
115	110				HR-14-115-110	HR-32-115-110
135	110					HR-32-135-110
135	115					HR-32-135-110
135	120					HR-32-135-130
145	110					HR-32-145-110
145	115					HR-32-145-115
145	130					HR-32-145-130
160	130					HR-32-160-130
160	145					HR-32-160-145
175	145					HR-32-175-145
175	160					HR-32-175-160

To reduce the Female Hexagon A/F size of the THL Series, these Tritorc Hexagon Reducer Bushes offer an easy and economical solution. Just select your Outside A/F size (i.e. Ratchet Head A/F size) & the required inside A/F size to determine the Model Number.

Note: Customize sizes available at request.

HEAVY DUTY IMPACT SOCKETS

ACCESSORIES FOR HYDRAULIC TORQUE WRENCH

Our Heavy Impact Sockets range from 3/4" to 2 1/2" in Square Drive and the Across Flat Sizes go up to 6 7/8". We also provide Metric sizes which range up to 185mm.

Impact sockets are available in different sizes and types.
A few common types that are used are as under:

6 Point Standard Impact Sockets

6 Point Deep Impact Sockets

12 Point Standard Impact Sockets

12 Point Deep Impact Sockets

4 Point Standard

8 Point Standard

Thin Wall Impact Sockets -Standard

Thin Wall Impact Sockets-Deep

VARIANTS COVERED:

- Regular Length Sockets
- Long Length/ Deep Sockets
- Magnetic
- Thin Wall
- Extensions
- Adaptors
- Loss of Vibration Sockets

MANUFACTURING FACILITY:

- State of the art facility with contemporary manufacturing ability spread over 17,000 Sq.Ft.
- Smooth logistical planning with excellent production Flow Management.
- Synergised Precision Machining, Assembly and Quality Control.

FEATURES:

- Correct Material Selection EN 19, EN 24, EN 47
- Accurate Machining & Finish
- Performance Enhancing Heat Treatment
- Clearance at Opening

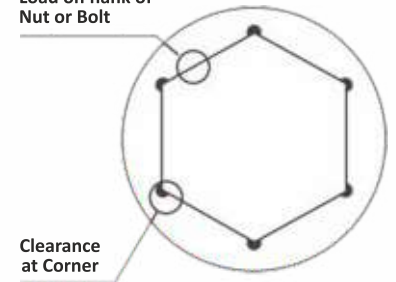
SHIPMENT:

- Supplied Worldwide
- All Standard Items are supplied Ex-Stock
- All Customized Orders are fulfilled by 4 weeks

Scan For Tritorc Socket Catalogue



Load on flank of Nut or Bolt



Clearance at Corner

VARIOUS OPENING TYPES



6 Point Hexagon



InHex Male Hexagon Driver



Socket for TORX® Fasteners



Driver for TORX® Fasteners



Surface Drive



Male Square



Spline #5 Sockets



Spline #5 Driver



12 Points Double Hexagon Sockets



8 Points Double Square Sockets



4 Points Square



Magnetic

Note: Customize sizes available at request.



LOW PROFILE HYDRAULIC TORQUE WRENCH ULTRA SLIM



TRITORC offers a series of Low-Profile Torque Wrenches which are crucial for applications in constricted spaces like Christmas Trees on BOP. A High-Performance Steel Alloy used for several components including, the Housing. This keeps the tool light, compact and strong.

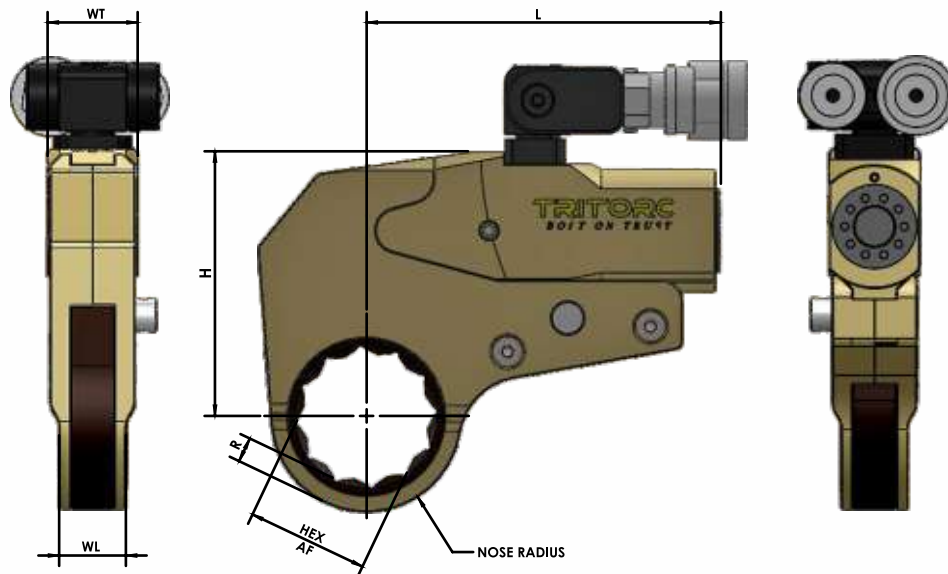
- 360°×180° swivel for better degree of movement.
- Self-lubricating low Nickel Bronze for drive bush to protect body from wear.
- The reduced dimensions allow the tool to fit into tight spaces easily.

MODEL	HEX A/F				Min. Torque	Max. Torque	Tool Weight Kg.
	mm	mm	Inch	Inch	N.m	N.m	
HSL-2	19	60	7/8"	2.3/8"	293	3051	2.70
HSL-4	46	80	1.13/16"	3.1/8"	608	6733	6.30
HSL-8	60	90	2.3/8"	3.1/2"	1192	12834	11.60

HSL LINK SELECTION

THL-2 Link	Hex Size		THL-4 Link	Hex Size		THL-8 Link	Hex Size	
	Inch	mm		Inch	mm		Inch	mm
HSL-2-19	333333	19	HSL-4-46		46	HSL-8-60		60
HSL-2-22		22	HSL-4-46F	1-13/16"		HSL-8-60F	2-3-8"	
HSL-2-22F	7/8"		HSL-4-50		50	HSL-8-63F	2-1/ 2"	
HSL-2-24		24	HSL-4-50F	2"		HSL-8-65		65
HSL-2-25F	1"		HSL-4-55		55	HSL-8-65F	2-9/16"	
HSL-2-27		27	HSL-4-55F	2.3-16"		HSL-8-66F	2-5/8"	
HSL-2-27F	1.1/16"		HSL-4-60		60	HSL-8-68F	2-11/16"	
HSL-2-30		30	HSL-4-60F	2.3-8"		HSL-8-69F	2-3/4"	
HSL-2-30F	1.3/16"		HSL-4-63F	2-1/ 2"		HSL-8-70		70
HSL-2-31F	1-1/4"		HSL-4-65		65	HSL-8-71F	2-13/16"	
HSL-2-32		32	HSL-4-65F	2-9/16"		HSL-8-73F	2-7/8"	
HSL-2-33F	1-5/16"		HSL-4-66F	2-5/8"		HSL-8-74F	2-15/16"	
HSL-2-34		34	HSL-4-68F	2-11/16"		HSL-8-75		75
HSL-2-34F	1-3/8"		HSL-4-69F	2-3/4"		HSL-8-76F	3"	
HSL-2-35		35	HSL-4-70		70	HSL-8-77F	3-1/16"	
HSL-2-36		36	HSL-4-71F	2-13/16"		HSL-8-79F	3-1/8"	
HSL-2-36F	1-7/16"		HSL-4-73F	2-7/8"		HSL-8-80		80
HSL-2-38		38	HSL-4-74F	2-15/16"		HSL-8-80F	3-3/16"	
HSL-2-38F	1-1/ 2"		HSL-4-75		75	HSL-8-82F	3-1/4"	
HSL-2-39F	1-9/16"		HSL-4-76F	3"		HSL-8-84F	3-5/16"	
HSL-2-41		41	HSL-4-77F	3-1/16"		HSL-8-85		85
HSL-2-41F	1-5/8"		HSL-4-79F	3-1/8"		HSL-8-85F	3-3/8"	
HSL-2-42F	1-11/16"		HSL-4-80		80	HSL-8-87F	3-7/16"	
HSL-2-44F	1-3/4"					HSL-8-88F	3-1/2"	
HSL-2-46		46				HSL-8-90		90
HSL-2-46F	1-13/16"							
HSL-2-50		50						
HSL-2-50F	2"							
HSL-2-55		55						
HSL-2-55F	2.3-16"							
HSL-2-60		60						
HSL-2-60F	2.3-8"							

LOW PROFILE HYDRAULIC TORQUE WRENCH ULTRA SLIM



Power Head		Torque Range		Hex Size	L	H	WL	WT	R
		Min	Max	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	(Nose Width)
THL-2	Ft.Lbs Nm	214 293	2217 3051	36.51 (1-7/16)	135 (5.31)	101 (3.97)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				31.75 (1-1/4)	135 (5.31)	101 (3.97)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				46.03 (1-13/16)	135 (5.31)	101 (3.97)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				41.28 (1-5/8)	135 (5.31)	135 (5.31)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				50.8 (2)	139 (5.47)	104 (4.09)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				55.58 (2-3/16)	137 (5.39)	110 (4.33)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
				60.33 (2-3/8)	137 (5.39)	111 (4.37)	25.5 (1.00)	34.4 (1.35)	8.9 (0.35)
THL-4	Ft.Lbs Nm	443 608	4891 6733	65.1 (2-9/16)	174 (6.85)	142 (5.59)	28.7 (1.13)	49.5 (1.95)	10.5 (0.41)
				69.85 (2-3/4)	176 (6.93)	142 (5.59)	28.7 (1.13)	49.5 (1.95)	10.5 (0.41)
				74.63 (2-15/16)	176 (6.93)	142 (5.59)	28.7 (1.13)	49.5 (1.95)	10.5 (0.41)
THL-8	Ft.Lbs Nm	867 1192	9323 12834	53.98 (2-1/8)	216 (8.50)	154 (6.06)	38 (1.49)	61.5 (2.42)	13.35 (0.53)
				79.38 (3-1/8)	216 (8.50)	154 (6.06)	38 (1.49)	61.5 (2.42)	14.45 (0.57)

Note: Dimensions are subject to change. For Higher Torque Values we can provide you with Customized Solutions.

HYDRAULIC TORQUEING POWER PACK

MODEL: TWP-3

TWP-3 is a pneumatic pump that is both lightweight and portable. The pump is fitted with a CEJN coupling outlet, a glycerin filled damped pressure gauge and an oil sight glass. It also features a fully functional remote control with a 5m cable.

- Double Speed, Single Output Hydraulic System.
- 1000 bar Ø100 mm diameter precision bar / psi gauge.
- Vibration Free Working.
- Protecting against dust filter inside the tank.

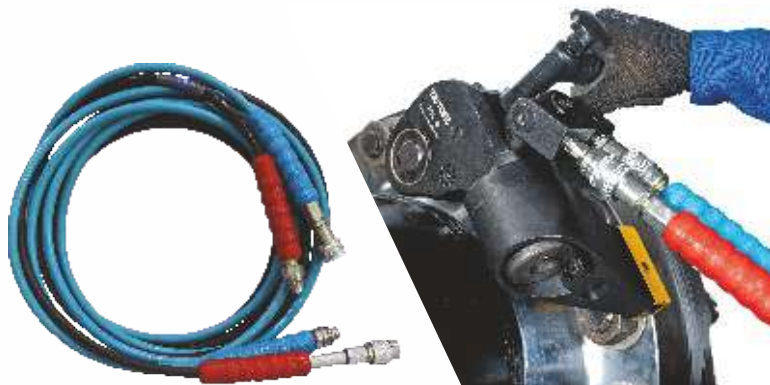


TECHNICAL DATA	
Drive Type	Air Driven 7 bar
Working Pressure	700 bar
Pump Type	Double Speed / Single-Act
Flow at Low Pressure (up to 70 bar)	8.4 ltr
Flow at Medium Pressure (up to 250 bar)	2.5 ltr
Flow at High Pressure (700 bar)	0.9 ltr
Oil Tank Capacity	10.0 ltr
Pressure Gauge	0-1000 bar
Working Noise	82db
Oil Grade	Remote Control (ISO-VG-68)
Dry Weight	30kg
Size (W x L x H)	471 x 467 x 295 mm

TRITORC TORQUING HOSE

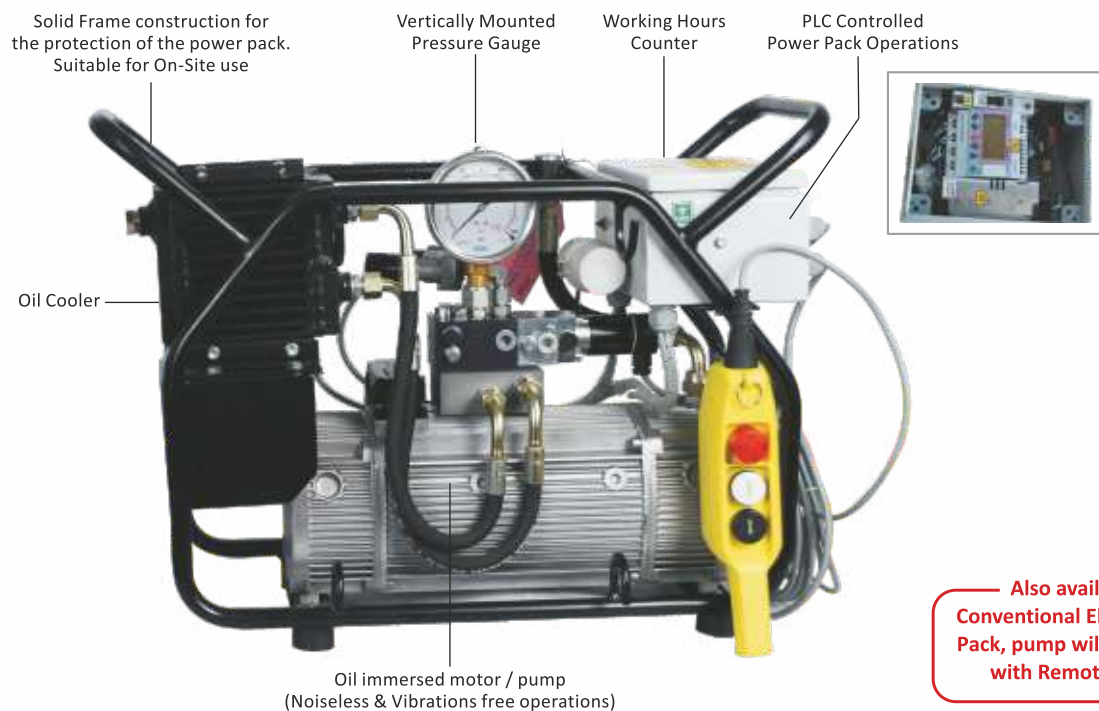
TWHS SERIES

Tritorc offers configurable 700 bar ultra-high-pressure hoses and hose kits that can be used with Hydraulic Torque wrenches.



Application	Model	Description
TORQUING	CPLR-700BAR	Coupler 1/4" NPT Male thread / Nipple 1/4" NPT Female thread, W.P. 700 Bar
TORQUING HOSE	TWHS-4.5	Two single hose (Black/Black) of 700 bar - 4.5m working pressure & BP of 1750 bar tied together to act as Twin hose with 1/4" Screw to connect coupling.
TORQUING HOSE	TWHS-6	Two single hose (Black/Black) of 700 bar - 6m working pressure & BP of 1750 bar tied together to act as Twin hose with 1/4" Screw to connect coupling.
TORQUING HOSE	TWHS-10	Two single hose (Black/Black) of 700 bar - 10m working pressure & BP of 1750 bar tied together to act as Twin hose with 1/4" Screw to connect coupling.
TORQUING HOSE	TWHS-12	Two single hose (Black/Black) of 700 bar - 12m working pressure & BP of 1750 bar tied together to act as Twin hose with 1/4" Screw to connect coupling.
TORQUING HOSE	TWHS-15	Two single hose (Black/Black) of 700 bar- 15m working pressure & BP of 1750 bar tied together to act as Twin hose with 1/4" Screw to connect coupling.

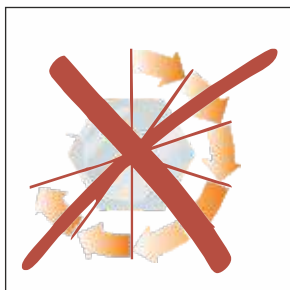
HYDRAULIC TORQUEING ELECTRIC POWER PACK MODEL: HPL-101



WITH AUTO CYCLE



WITHOUT AUTO CYCLE



TECHNICAL DATA

Drive Type	Electric
Power Rating	1.5 KW
Max. Pressure	700Bar / 10,000 PSI
Flow Rate	9.7LPM @ 70Bar 0.97LPM @ 700Bar
Capacity	6 Ltr. / 2 Gallon

ADVANTAGES OF FULL AUTOMATIC TRITORC POWER PACKS

1. FULLY AUTOMATIC POWER PACK

- Faster and reliable in operations.
- High repeatability of the bolting process without pressing the button again and again.

2. TEMPERATURE MANAGEMENT

- Built-in heat exchanger to cool the system.
- The unique concept of the high-speed cooling and heat exchanger optimizes cooling for continuous operation.
- Power pack switches off automatically if the temperature rises above 80°C.

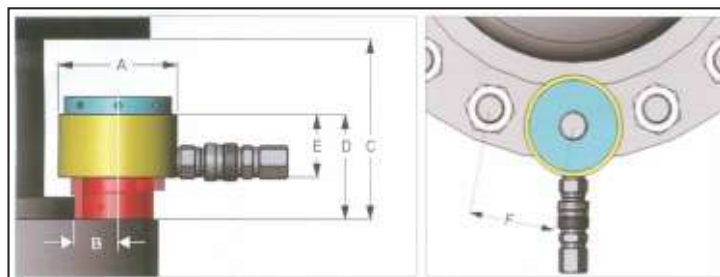
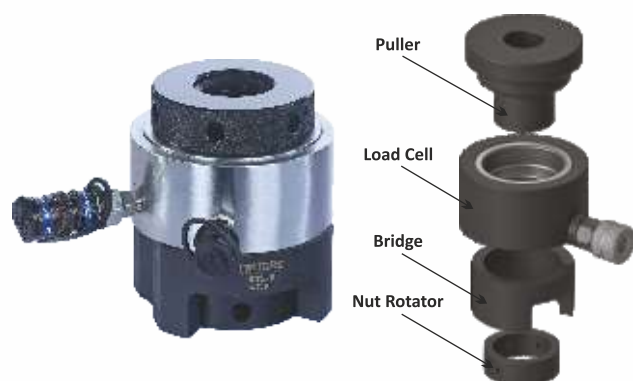
3. OIL IMMERSED MOTOR

- Noiseless and vibration free operations.
- Effective temperature equalization by cooling motor, pump & oil at the same time.

4. PLC CONTROL SYSTEM

- Reliable control operations of power packs.
- If the power pack remains idle continuously for more than 3 minutes, it will switch off automatically.

TOP-SIDE BOLT TENSIONER BTL SERIES

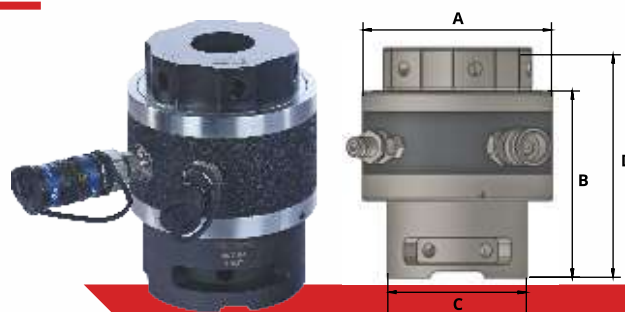


Model	Bolt Size		Cylinder	Hyd. Area	Dimension						Weight
	Metric	Inch			A	B	C	D	E	F	
			kN (Ton)	cm ² (in ²)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	kg (lbs)
BTL-3	M16	-	234.2 (23.88)	15.7 (2.43)	75 (2.95)	32.5 (1.27)	168 (6.61)	90 (3.54)	62 (2.44)	47-51 (1.85-2.0)	3 (6.61)
	M18	3/4"									
	M20	-									
	M22	7/8"									
	M24	1									
BTL-5	M27	1-1/8"	498.2 (50.80)	33 (5.11)	102 (4.01)	47 (1.85)	187 (7.36)	106 (4.17)	60 (2.36)	65-71 (2.55-2.79)	5.50 (12.12)
	M30	-									
	M33	1-1/4"									
	M36	1-3/8"									
BTL-9	M39	1-1/2"	896.8 (91.44)	59.7 (9.25)	133 (5.23)	61 (2.40)	208 (8.18)	120 (4.72)	60 (2.36)	86-93 (3.38-3.66)	10 (22.04)
	M42	1-5/8"									
	M45	1-3/4"									
	M48	1-7/8"									
BTL-13	M52	2"	1245.0 (126.8)	83 (12.86)	163 (6.41)	73 (2.87)	231 (9.09)	135 (5.31)	62 (2.44)	106-114 (4.17-4.48)	16 (35.27)
	M56	2-1/4"									
	M60	-									
BTL-19	M64	2-1/2"	1843.3 (187.96)	123 (19.06)	193 (7.59)	86.5 (3.40)	254 (10)	150 (5.90)	62 (2.44)	129-135 (5.07-5.31)	22 (48.50)
	M68	-									
	M72	2-3/4"									
	M76	3"									
BTL-27	M76	3"	2640.5 (269.25)	176 (27.28)	233 (9.17)	110 (4.33)	286 (11.25)	180 (7.08)	73 (2.87)	155-167 (6.10-6.57)	40 (88.18)
	M80	-									
	M85	3-1/4"									
	M90	3-1/2"									
	M95	3-3/4"									
	M100	4"									
BTL-37	M90	3-1/2"	3768.0 (384.22)	251 (38.90)	280 (11.02)	111-121 (4.37-4.76)	304-338 (11.96-13.30)	181-197 (7.12-7.75)	37-40 (1.45-1.57)	175-196 (6.88-7.71)	64 (141.09)
	M95	3-3/4"									
	M100	4"									
	M110	4.1-4"									
BTL-44	M100	4"	4335.0 (442.04)	289 (44.79)	314 (12.36)	121-140 (4.76-5.51)	310-360 (12.20-14.17)	191-210 (7.51-8.26)	40-44 (1.57-1.73)	192-233 (7.55-9.17)	85 (187.39)
	M110	4.1-2"									
	M120	4.3-4"									
	M125	5"									
BTL-54	M125	5"	5404.0 (551.05)	360 (55.80)	344 (13.54)	131-161 (5.15-6.33)	354-388 (13.93-15.27)	202-216 (7.95-8.50)	42-47 (1.65-1.85)	243-275 (9.56-10.82)	125 (275.57)
	M130	5-1/4"									
	M140	5-1/2"									
	M150	5-3/4"									

Note: Dimensions are subject to change.

SPRING RETURN HYDRAULIC BOLT TENSIONER SLT SERIES

- Working Pressure 1500Bar / 21755 psi
- Special Seal Kit, Piston/Cylinder mis-alignment compensation
- Piston Stroke of SLT 1=8mm, the other model is 10mm.
- Built-in stroke limit valve prevent over stroke.
- Fully enclosed load cell to prevent debris into cylinder.
- Spring return for fast and safe use.



Model	Bolt Size				Max. Load kN (Ton)	Hyd. Area cm ² (in ²)	A mm (in)	B mm (in)	C mm (in)	Clearance D mm (in)	Weight kg (lbs)
	Imperial		Metric								
SLT1	3/4"	SLT1-1	M20	SLT1-3	160 (16.31)	10.67 (1.65)	66 (2.59)	93 (3.66)	63 (2.48)	136 (5.35)	1.4 (3.08)
	7/8"	SLT1-2	M22	SLT1-4							
SLT2	1"	SLT2-1	M24	SLT2-3	280 (28.55)	18.67 (2.89)	87 (3.42)	117 (4.60)	68 (2.67)	175 (6.88)	2.7 (5.95)
	1-1/8"	SLT2-2	M27	SLT2-4							
SLT3	1"	SLT3-1	M24	SLT3-5	450 (45.88)	30.01 (4.65)	103 (4.05)	117 (4.60)	75 (2.95)	175 (6.88)	4.1 (9.03)
			M27	SLT3-6							
	1-1/8"	SLT3-2	M30	SLT3-7				120 (4.72)	80 (3.14)	181 (7.12)	
	1-1/4"	SLT3-3	M33	SLT3-8							
	1-3/8"	SLT3-4	M36	SLT3-9				126 (4.96)	89 (3.50)	195 (7.67)	
SLT4	1-1/4"	SLT4-1	M33	SLT4-5	660 (67.30)	44.01 (6.82)	118 (4.64)	123 (4.84)	88 (3.46)	190 (7.48)	5.4 (11.9)
	1-3/8"	SLT4-2	M36	SLT4-6				126 (4.96)	96 (6.77)	197 (7.75)	
	1-1/2"	SLT4-3	M39	SLT4-7				130 (8.11)	96 (3.77)	203 (7.99)	
	1-5/8"	SLT4-4	M42	SLT4-8				133 (5.23)	105 (4.13)	209 (8.22)	
SLT5	1-1/2"	SLT5-1	M39	SLT5-6	1008 (101.97)	67.20 (10.33)	140.5 (5.53)	132 (5.19)	112 (4.40)	211 (8.30)	8.4 (18.51)
	1-5/8"	SLT5-2	M42	SLT5-7				135 (5.31)	114 (4.48)	217 (8.54)	
	1-3/4"	SLT5-3	M45	SLT5-8				139 (5.47)	118 (4.64)	223 (8.77)	
	1-7/8"	SLT5-4	M48	SLT5-9				142 (5.59)	114 (4.48)	230 (9.05)	
	2"	SLT5-5						145 (5.70)	120 (4.72)	236 (9.29)	
SLT6	2"	SLT6-1	M52	SLT6-5	1506 (152.95)	100.35 (15.50)	175.5 (6.90)	148 (5.82)	120 (4.72)	246 (6.68)	13.8 (30.42)
	2-1/4"	SLT6-1	M56	SLT6-6				154 (6.06)	138 (5.43)	259 (10.19)	
			M60	SLT6-7				161 (6.33)	138 (5.43)	259 (10.19)	
	2-1/2"	SLT6-3	M64	SLT6-8				161 (6.33)	153 (6.02)	272 (10.70)	
	2-3/4"	SLT6-4	M68	SLT6-9				167 (6.57)	156 (6.14)	284 (11.18)	
SLT7	2-3/4"	SLT7-1	M72	SLT7-5	2500 (254.92)	166.66 (25.84)	219 (8.62)	167 (6.57)	157 (6.18)	294 (11.57)	23 (50.70)
	3"	SLT7-2	M76	SLT7-6				171 (6.73)	158 (6.22)	307 (12.08)	
			M80	SLT7-7				180 (7.08)	190 (7.48)	310 (12.20)	
	3-1/4"	SLT7-3	M85	SLT7-8				180 (7.08)	190 (7.48)	320 (12.59)	
	3-1/2"	SLT7-4	M90	SLT7-9				186 (7.32)	205 (8.07)	332 (13.07)	
SLT8	3-1/2"	SLT8-1	M90	SLT8-4	3202 (326.30)	213.347 (33.07)	252 (9.92)	186 (7.32)	200 (7.87)	339 (13.34)	32 (70.54)
			M95	SLT8-5				186 (7.32)	200 (7.87)	346 (13.62)	
	3-3/4"	SLT8-2	M100	SLT8-6				192 (7.55)	200 (7.87)	352 (13.85)	
	4"	SLT8-3						199 (7.83)	210 (8.26)	364 (14.33)	

Note: Dimensions are subject to change.

MULTI-STAGE HYDRAULIC BOLT TENSIONER MST SERIES

Multi-Stage Tensioners are slim tensioners suited for constricted space operations. These tensioners benefit from the combined tensioning force of multiple cylinders to achieve desired results in a smaller diameter.

- Working Pressure 1500Bar / 21755 psi.
- Fast, simple, accurate, reliable and ideal tightening and bolting tool for wind turbine.
- Small, compact, can impart large tensioning load.
- Durable composite material seal kit.
- Clear over stroke alarming mark.
- Optional gear drive allows the user rotate the nut quickly.
- Optional cycle counter available.



**AUTOMATIC
PISTON RETURN**

**STURDY GEARBOX FOR
RUNDOWN OF SOCKETS**

TECHNICAL DATA OF VARIANTS:

Model	Bolt Diameter		Min. Length of Thread (mm)	Max. Length of Thread (mm)	Working Stroke (mm)	Bolt Distance (mm)	Max. Load (KN)	Outside Diameter (mm)	Min.Height (mm)
	(mm)	(in)							
MST-M30	M30	1-1/8	62	69	7	66	464	73	276
MST-M33	M33	1-1/4	66	73	9	72	583	78	295
MST-M36	M36	1-3/8	75	82	9	77	677	84	326
MST-M39	M39	1-1/2	78	88	10	83	805	90	360
MST-M42	M42	1-5/8	83	91	10	89	926	96	357
MST-M45	M45	1-3/4	87	96	10	96	1091	105	371
MST-M48	M48	1-7/8	93	102	10	102	1231	110	387

Note: Dimensions are subject to change. Customised solutions are provided as per requirement as well.

WIND TURBINE FOUNDATION BOLT TENSIONER WBT SERIES

To meet electrical generation requirements, Wind Turbines must be installed quickly. This process requires a tool that can be relied upon repeatedly to maintain a strong foundation for the wind turbine.

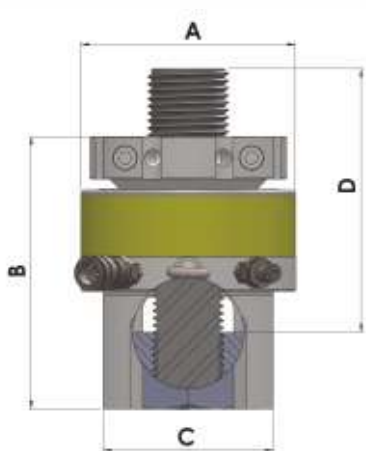
- Custom Built Tools with Synchronized Tensioner Operation.
- An auto retract mechanism makes installation faster.
- High Tensioning Force available for various thread profiles and a wide range of bolt sizes.
- Compatible with Electrical, Pneumatic and Manually Operated Power Packs.



SUB-SEA HYDRAULIC BOLT TENSIONER TAT SERIES

The Tritorc Aqua Tensioning Tools (TAT) are precision-engineered hydraulic bolt tensioners designed specifically for subsea bolted joints where speed, reliability, and ease of use are critical. These tools are ideal for applications requiring consistent and accurate bolt pre-loading in the harshest subsea environments.

- Hydraulic operation for precise tensioning.
- Quick Reaction Split Nut for faster and safer engagement.
- Designed for diver-friendly handling.
- Delivers up to 257 tons of tensioning force.
- Fully sealed and corrosion-resistant construction for subsea use.
- Suitable for a wide range of bolt sizes (3/4 " to 3½").



Model Name	Bolt Dia.		Load	Hydraulic Area		Stroke	Tool Weight	A		B		C		Min. Bolt Protrusion above Nut (D)	
	in	mm		in ²	mm ²			in	mm	in	mm	in	mm	in	mm
TAT1	3/4"	M20	140.4	1.5	936	20	2.1	2.6	65	4.7	119	1.9	48	4.09	107
	7/8"	M22												3.98	105
TAT2	1"	M24	239.3	2.5	1596	30	3.9	3.2	82	6.1	155	2.4	60	5.24	139
	1-1/8"	M27												5.12	136
		M30												5.12	134
TAT3	1-1/4"	M33	379.7	3.9	2532	30	4.5	3.7	95	6.4	162	3	77	5.35	142
	1-3/8"	M36												5.24	139
TAT4	1-1/2"	M39	551.2	5.7	3675	30	7.1	4.4	111	6.7	171	3.5	90	5.51	147
	1-5/8"	M42												5.35	144
TAT5	1-3/4"	M45	885.5	9.1	5903	30	10.2	5.4	136	8.0	203	4.5	114	5.94	160
	1-7/8"	M48												5.83	158
	2"	M52												5.71	154
TAT6	2-1/4"	M56	1564.2	16.2	10428	30	16.5	6.4	162	8.8	224	5.5	140	6.54	178
	2-1/2"	M60												6.3	175
	2-3/4"	M64												6.08	172
		M68												6	169
		M70												5.95	165
TAT7	3"	M76	2576.2	26.6	17174	30	32.4	7.2	183	10.1	256	7.1	180	7.13	195
	3-1/4"	M80												6.89	192
	3-1/2"	M85												6.65	188
		M90												6.65	184

AIR OPERATED HYDRAULIC POWER PACK

MODEL: TBP-150

The Air Operated Pumps are designed to incorporate safe, reliable and simple operation.

- Consumption of Free Air 800 Litres per minute (28 Standard cubic feet per minute)
- Air Pressure Required 4 - 7 Bar (60 - 100 psi)
- Finish Pressure Gauge Dual Scale 0 - 2000 Bar (0-29000 psi)
- Working Pressure 1500 Bar



TECHNICAL DATA	
Drive Type	Tensioner Pneumatic Pump
Pressure Ratio	300:1
Outlet Pressure (Max.)	2300 Bar
Utilities	OIL
Flow (Max.)	0.6 LPM
Connection Inlet	Drive Air-1/2" BSP Female
Connection Outlet	HF4 Female
Air Drive Pressure	1 Bar (Min.) to 6 Bar (Max.)
Dimensions (L x W x H)	430 x 400 x 390 mm

TRITORC TENSIONING HOSE

BTHS SERIES

Tritorc offers configurable 1500 bar ultra-high-pressure hoses and hose kits that can be used with Hydraulic Tensioners.



Application	Model	Description
TENSIONING	CPLR-1500	Series 116 Coupling, Max. WP 1500bar, 1/4" BSP Female thread
TENSIONING		Series 116 Nipple, Max. WP 1500bar, 1/4" BSP Female thread
TENSIONING HOSE	BTHS-1.5	1800bar Hose of 1.5m with 1500bar Coupler/Nipple
TENSIONING HOSE	BTHS-3	1800bar Hose of 3.0m with 1500bar Coupler/Nipple
TENSIONING HOSE	BTHS-5	1800bar Hose of 5.0m with 1500bar Coupler/Nipple
TENSIONING HOSE	BTHS-7	1800bar Hose of 7.0m with 1500bar Coupler/Nipple
TENSIONING HOSE	BTHS-10	1800bar Hose of 10.0m with 1500bar Coupler/Nipple

ELECTRIC DRIVEN TENSIONING PUMP

MODEL: BEL-8

- Brand New Technology: Combine unit of Low pressure and high pressure equipments.
- Less High Pressure component used, hence maintenance cost is less.
- Analog or digital pressure gauges assure the highest possible read out and adjustment precision.
- All components are highly precise and reputed make.
- Substantial savings in energy and oil consumption.
- High speed/flow.
- Remotely operation forward and reverse.
- Light weight & compact design.

TECHNICAL DATA	
Main Voltage	230 V ,50Hz
Solenoid Voltage	230V AC
Main Consumption	9A
Motor Capacity	1.5 kW
Protected According to	55 IP
Nominal Pressure	0-1500 bar

FLOW	
Pressure @ 1500 BAR	0.1 lpm
Pump Open Flow	4.8 lpm
Oil Consumption	5.5 ltr.
Oil Type	ISO, Servo 68
Ambient Temperature	45°C
Max. Oil Temperature	70°C
Weight Without Oil (Approx.)	35°C



OPTIONAL ACCESSORIES

- High Pressure Hose
- High Pressure QRC
- Digital Pressure Gauge

HAND PUMPS FOR BOLT TENSIONERS

MODEL: BPL-15

The TRITORC Two-Stage Hand Pumps come with Standard Pressure Gauge; this gives the user precise and safe control over the work carried out. The gauge is directly mounted onto the pump and is well protected by the specially designed pump lever.

TECHNICAL DATA	
Oil Tank Capacity	2000 (122.1) cm ³ (in ³)
Usable Oil Capacity	1700 (103.7) cm ³ (in ³)
Volume per Stroke	High - 0.8cm ² /mm Low - 20cm ² /mm
Piston Stroke	26 mm
Max. Working Pressure	1800 kg/cm ²
Max. Handle Effort	33.9 kg (74.74 lb)
Weight	7.7 kg (16.98 lb)



Return connections on all pumps

Easy and simple maintenance

Robust Design

Aluminum Tank

MANUAL TORQUE WRENCHES

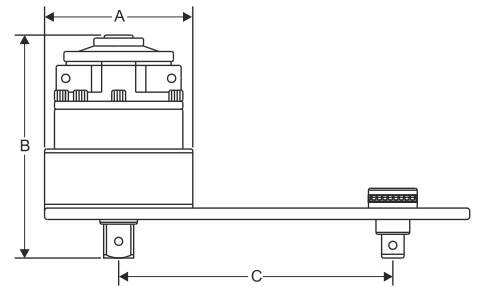
TRITORC Click Type Torque Wrenches are an innovative design concept, providing consistently accurate readings and trouble-free performance.

Model No.		Torque Wrenches				Square Drive	Overall Length	Unit Weight
Non-Ratcheting	Ratcheting	Nm	Kgf.m	Lbf.in	Lb.ft	Inches	mm	kg.
TVT-100A	TVTR-100A	2.5-11	0.3-1.1	20-100	2-8	3/8"	320/360	0.56
TVT-300A	TVTR-300R	5-35	0.5-3.5	40-300	4-25	3/8"	430/465	0.75
TVT-600A	TVTR-600R	12-68	1.2-7	100-600	10-50	1/2"	485/530	1.10
TVT-1200A	TVTR-1200A	25-135	3-14	200-1200	20-100	1/2"	545/595	2.0
TVT-2000A	TVTR-2000A	50-225	5-23	400-2000	40-160	1/2"	610/660	2.49
TVT-3000A	TVTR-3000A	70 - 330	7-35	600-3000	50 - 250	1/2"	835/890	4.0
TVT-5000A	TVTR-5000A	140 - 560	14-57	1200-5000	100-410	3/4"	1120/1195	6.58
TVT-8400A	TVTR-8400A	480 - 940	49-95	4200-8400	350-700	3/4"	1400/1485	12.7
NT-14	NT-14/R	135-540	14-56	1200-4800	100-400	3/4"	1120/1195	6.5
NT-14S	NT-14S/R	135-780	14-78	1200-6640	100-500	3/4"	1110/1195	7.0
NT-49	NT-49/R	475-1050	49-105	4200-9300	350-750	3/4"	1390/1480	15.0
NT-55	NT-55/R	540-1380	55-140	4800-12250	400-1000	1"	1305/1340	18.0
NT-105	NT-105/R	1015-1900	105-195	8800-16820	750-1400	1"	1305/1340	18.0
NT-170	NT-170/R	1350-2700	135-275	11950-24000	1000-2000	1"	1450/1530	20.60

Note: Dimensions are subject to change.



MANUAL TORQUE MULTIPLIER



Model	Max Output Torque		Estimated Bolt Capacity		Multiplication Factor	Input Square	Output Square	Major Dia A	Depth B	Min C	Max C	Recommended Torque Wrench	Approx Weight
	Ft.lbs	Nm	Kgf.m.	inch mm		inch	inch	mm	mm	mm	mm	No.	Kg
AM-1	1250	1700	170	1.1/8 27	5	1/2"	3/4"	127	105	85	217	TVT-3000A	5
AM-2	1250	1700	170	1.1/8 27	5	3/4"	1	127	125	85	217	TVT-3000A	5.5
AM-2/25	1250	1700	1170	1.1/8 27	25	1/2"	1	124	155	85	217	TVT-600A	8.5
AM-5	2000	2700	275	1.3/8 36	5	3/4"	1	129	140	100	260	TVT-5000A	7.5
AM-5/25	2000	2700	275	1.3/8 36	25	1/2"	1	140	186	100	260	TVT-1200A	12.5
AM-6	2500	3400	345	1.1/2 38	5	3/4"	1.1/2"	150	155	102	260	TVT-8400A	10
AM-6/25	2500	3400	345	1.1/2 38	25	1/2"	1.1/2"	140	208	100	260	TVT-1200A	14
AM-7	4500	6000	622	1.7/8 48	5	3/4"	1.1/2"	166	163	122	310	NT-55	14
AM-7/25	4500	6000	622	1.7/8 48	25	1/2"	1.1/2"	166	250	122	310	NT-55	22
AM-9/25	7000	9500	965	2.1/4 56	25	3/4"	1.1/2"	207	260	150	350	TVT-5000A	31
AM-9/125	7000	9500	965	2.1/4 56	125	1/2"	1.1/2"	207	301	150	350	NT 14/S	35
AM-11/25	12500	17000	1735	3.3/4 95	25	3/4"	2.1/2"	258	325	180	480	NT 14/S	60
AM-11/125	12500	17000	1735	3.3/4 95	125	1/2"	2.1/2"	258	400	180	480	TVT-2000A	75
AM-13/125	35000	47500	4845	4.1/2 115	125	3/4"	2.1/2"	315	550	180	480	NT-14/R	100

AWUR-Anti Wind Up Ratchet

Note: Dimensions are subject to change.

HYDRAULIC VERTICAL LIFTING WEDGE FLANGE SPREADERS HVWL-10



TRITORC Hydraulic Vertical Lifting Wedge HVWL-10 has been developed as an easy to use and a cost-effective way to find solutions to heavy lifting where minimum clearance is available. It will lift objects vertically where an access gap of 3/8" (9.5mm) or more is available. The HVWL-10 will lift an object fast, with a secure lifting force of 16 Tons per tool.

- Access gap of only 3/8" (9.5mm) needed.
- 3/4" (19.0mm) of vertical lift available from each step
- Max. height of 50mm on 4th step
- Automatic spring return retraction

- Interlocking first step ensures safe hold
- No slippage due to locking
- Will lift in a straight vertical place

MINI KIT

- 1 x Hydraulic Vertical Lifting Wedge Assembly
- 1 x Safety Block
- 1 x Stepped Block
- 1 x Instruction Manual



STANDARD KIT

- 1 x Hydraulic Vertical Lifting Wedge Assembly
- 1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump
- 1 x 10,000 psi (700 Bar) Hydraulic Hose Length 6 feet
- 1 x Safety Block
- 1 x Stepped Block
- 1 x Instruction Manual
- 1 x Carry Case



HYDRAULIC SPREADING WEDGE HSWL-10



The Spreading Wedge has been developed as the simple cost effective solution for flange spreading

- Only requires an access gap 1/4" (6mm)
- Robust light weight tool-just 7.2 kg (16 lbs)
- 10,000 psi (700 Bar) generates 14.0 Tons spreading force
- Automatic Spring Return
- Locking at first step ensures on slippage increased safely

MINI KIT

- 1 x Hydraulic Spreading Wedge Assembly
- 1 x Safety Block
- 1 x Instruction Manual
- 1 x Carry Case



STANDARD KIT

- 1 x Hydraulic Spreading Wedge Assembly
- 1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump
- 1 x 10,000 psi (700 Bar) Hydraulic Hose
- 1 x Safety Block
- 1 x Instruction Manual
- 1 x Carry Case
- Gross Weight: 17 kg.



STEPPED BLOCK ACCESSORY

- 2 x Safety Block
- 2 x CSK M6 x 12mm Countersunk Screws



MAXI KIT

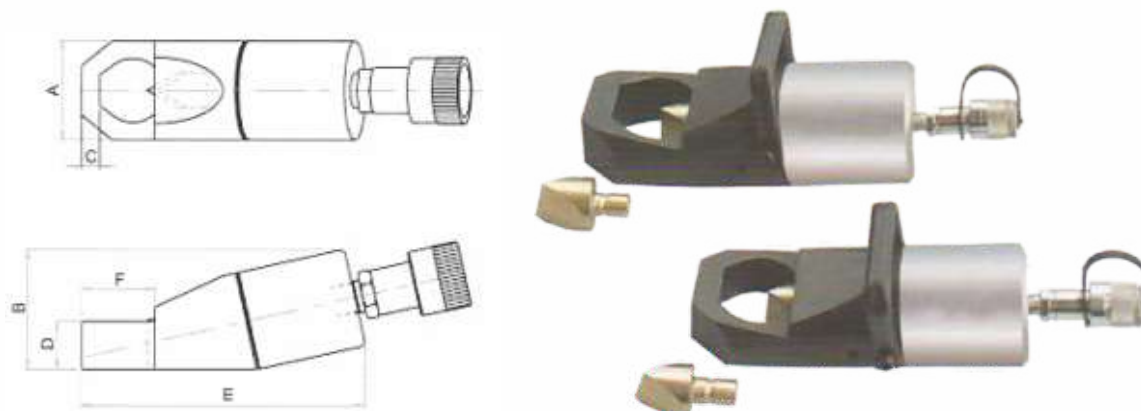
- 2 x Hydraulic Spreading Wedge Assembly
- 1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump
- 2 x 10,000 psi (700 Bar) Hydraulic Hoses
- 1 x 10,000 psi Twin Valve Manifold
- 2 x Safety Block
- 1 x Instruction Manual
- 1 x Carry Case
- Gross Weight: 28kg.



LIGHT WEIGHT NUT SPLITTER

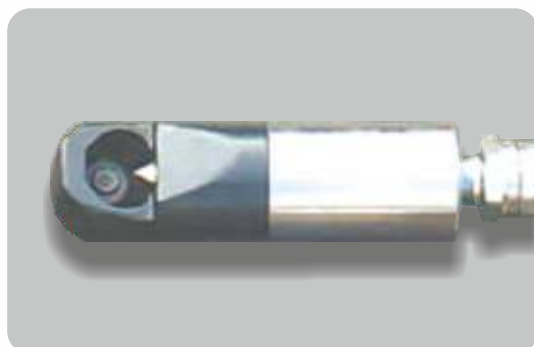
TRITORC Lightweight Hydraulic Nut Splitters are used in applications that involve corroding of a nut. It can be used to remove corroded or seized nuts quickly and safely. The lightweight option helps the user to apply the tool to the lower sized bolts.

TRITORC offers Lightweight Hydraulic Nut Splitters for a range of Hex sizes from 0.37 to 2.95 inches. Our product is designed for operator comfort that fits tight spaces, and it cuts through the hardest of nuts.



Model	Hex Size inch (mm)	Thread Size	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E inch (mm)	F inch (mm)	Weight lbs (kg)	Replacement Chisel Model Nos.
Standard										
NSL-5	0.37"-0.75" (10-19)	M6-M12	1.57" (40)	2.04" (52)	0.31" (8)	0.79" (20)	5.11" (130)	1.18" (30)	2 (1)	TNSC-5
NSL-10	0.75"-0.94" (19-24)	M12-M16	2.12" (54)	2.64" (67)	0.47" (12)	0.94" (24)	6.41" (163)	1.41" (41)	4 (2)	TNSC-10
NSL-15	0.94"-1.26" (24-32)	M16-M22	2.52" (64)	3.11" (79)	0.51" (13)	1.18" (30)	7.36" (187)	2.04" (52)	6 (3)	TNSC-15
NSL-20	1.26"-1.61" (32-41)	M22-M27	3.07" (78)	3.70" (94)	0.78" (20)	1.46" (37)	8.62" (219)	2.72" (69)	10 (4.5)	TNSC-20
NSL-35	1.61"-1.97" (41-50)	M27-M33	3.74" (95)	4.45" (113)	0.83" (21)	1.77" (45)	10.43" (265)	3.07" (78)	21 (9.6)	TNSC-35
NSL-50	1.97"-2.36" (50-60)	M33-M39	4.17" (106)	5.04" (128)	0.98" (25)	2.12" (54)	11.69" (297)	3.58" (91)	29 (13)	TNSC-50
NSL-90	2.36"-2.95" (60-75)	M39-M48	6.14" (156)	7.28" (185)	1.06" (27)	2.95" (75)	14.05" (357)	4.33" (110)	75 (34)	TNSC-90

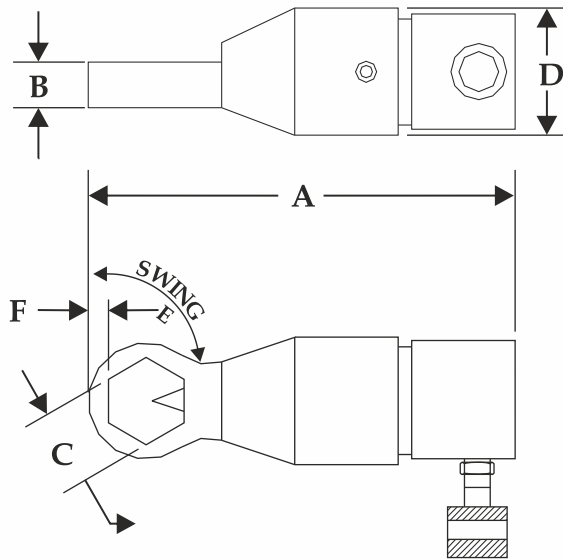
Higher capacity and customized solutions are available on request.
Specifications are subject to change.



APPLICATION

- Access gap of only 3/8" (9.5mm) needed.
- 3/4" (19.0mm) of vertical lift available from each step
- Max. height of 50mm on 4th step
- Automatic spring return retraction
- Interlocking first step ensures safe hold
- No slippage due to locking
- Will lift in a straight vertical place

HEAVY DUTY HYDRAULIC NUT SPLITTER



MODEL	Stud Dia. inch (mm)	Nut A/f inch (mm)	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E	F	Weight lbs (kg)
STANDARD									
ASL 105	7/16"-7/8" (11-22)	5/8"-1 7/16" (16-36)	11" (271)	1.05 (38)	1.49" (38)	4.13" (105)	60°	0.39" (10)	20 (9)
ASL 200	7/8"-1 1/4" (22-31)	1 5/16"-2" (33-50)	11.29" (287)	1.05" (38)	2.12" (54)	4.25" (108)	45°	0.51" (13)	21 (10)
ASL 204	1 1/4"-1 1/2" (32-38)	1 7/8"-2 3/8" (47-60)	15.16" (385)	2 1/4" (57)	2.52" (64)	6.45" (164)	30°	0.55" (14)	71 (32)
ASL 210	1 3/8"-1 3/4" (39-44)	2 1/16"-2 3/4" (52-70)	16.10" (398)	2 1/4" (57)	2.87" (73)	6.45" (164)	30°	0.70" (18)	72 (33)
ASL 308	1.3/4"-2.1/4" (45-57)	2.5/8"-3.1/2" (70-89)	17.75" (460)	3" (77.8)	3.89" (99)	8.42" (214)	30°	0.75" (19)	158 (72)
ASL 314	2"-2.1/2" (50-64)	3.1/8"-3.7/8" (79-98)	18" (488)	3.12" (79.4)	4.25" (108)	8.42" (214)	30°	0.86" (22.2)	163 (74)
ASL 404	2.1/2"-2.3/4" (64-70)	3.3/4"-4.1/4" (95-108)	22.75" (579)	3.75" (95.3)	4.64" (118)	9.88" (251)	60°	1.14" (28.6)	251 (114)
ASL 500	3"-3.1/4" (76-83)	4.1/2"-5" (114-127)	23" (590)	4.12" (104.8)	5.39" (137)	9.88" (251)	60°	1.14" (28.6)	256 (116)
ASL 506	3.1/4"-3.1/2" (83-89)	4.7/8"-5.3/8" (124-136)	23.5" (598)	4.12" (104.8)	5.86" (149)	9.88" (251)	60°	1.14" (28.6)	262 (119)

NUT SPLITTER IS SUPPLIED COMPLETE WITH

- Hydraulic Cylinder
- Housing
- Chisel
- Set of Allen Keys
- Spacer Set
- Packed in a Rugged Steel Tool Box

APPLICATION

- Designed for Operator comfort
- Removes corroded nuts faster
- Removes frozen nuts safely
- Fits tight spaces
- Cuts through the hardest nuts

FLANGE SIZE

Nominal Size		FLANGE SIZE																	
Inches	Metric	150			300			600			900			1500			2500		
		No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm	No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm	No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm	No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm	No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm	No. of Bolts	Bolt Dia. Inches	Bolt Dia. mm
1/2	15	4	1/2	14	4	1/2	14	4	1/2	14	4	3/4	20	4	3/4	20	4	3/4	20
3/4	20	4	1/2	14	4	5/8	16	4	5/8	16	4	3/4	20	4	3/4	20	4	3/4	20
1	25	4	1/2	14	4	5/8	16	4	5/8	16	4	7/8	24	4	7/8	24	4	7/8	24
1.1/4	32	4	1/2	14	4	5/8	16	4	5/8	16	4	7/8	24	4	7/8	24	4	1	27
1.1/2	40	4	1/2	14	4	3/4	20	4	3/4	20	4	1	27	4	1	27	4	1.1/8	30
2	50	4	5/8	16	8	5/8	16	8	5/8	20	8	7/8	24	8	7/8	24	8	1	27
2.1/2	65	4	5/8	16	8	3/4	20	8	3/4	20	8	1	27	8	1	27	8	1.1/8	30
3	80	4	5/8	16	8	3/4	20	8	3/4	20	8	7/8	24	8	7/8	24	8	1.1/4	33
3.1/2	90	8	5/8	20	8	3/4	20	8	7/8	22	-	-	-	-	-	-	-	-	-
4	100	8	5/8	20	8	3/4	20	8	7/8	24	8	1.1/8	30	8	1.1/4	33	8	1.1/2	39
5	125	8	3/4	20	6	3/4	20	8	1	27	8	1.1/4	33	8	1.1/2	39	8	1.3/4	45
6	150	8	3/4	20	12	3/4	24	12	1	27	12	1.1/8	30	12	1.3/8	36	8	2	52
8	200	8	3/4	24	12	7/8	27	12	1.1/8	30	12	1.3/8	36	12	1.5/8	42	12	2	52
10	250	12	7/8	24	16	1	30	16	1.1/4	33	16	1.3/8	35	12	1.7/8	48	12	2.1/2	64
12	300	12	7/8	27	16	1.1/8	30	20	1.1/4	33	20	1.3/8	36	12	2	52	12	2.3/4	70
14	350	12	1	27	20	1.1/8	33	20	1.3/8	36	20	1.1/2	39	16	2.1/4	56			
16	400	16	1	30	20	1.1/4	33	20	1.1/2	39	20	1.5/8	42	16	2.1/2	54			
18	450	16	1.1/8	30	24	1.1/4	33	20	1.5/8	42	20	1.7/8	48	16	2.3/4	70			
20	500	20	1.1/8	33	24	1.1/4	33	24	1.5/8	42	20	2	52	16	3	76			
24	600	20	1.1/4	33	24	1.1/2	42	24	1.7/8	48	20	2.1/2	64	16	3.1/2	90			
26	650	24	1.1/2	33	28	1.1/4	42	24	1.3/4	48	20	2.3/4	70						
28	700	28	1.1/2	33	28	1.1/2	45	28	2	52	16	3	76						
30	750	28	1.1/2	33	28	1.3/4	40	28	2	52	20	3	76						
32	800	28	1.1/2	39	28	1.1/4	48	28	2.1/2	56	20	3.1/2	85						
34	850	32	1.1/2	39	28	1.1/2	48	28	2.1/2	56	20	3.1/2	90						
36	900	32	1.1/2	39	32	2	52	28	2.1/2	64	20	3.1/2	90						

TORQUE SPECIFICATIONS

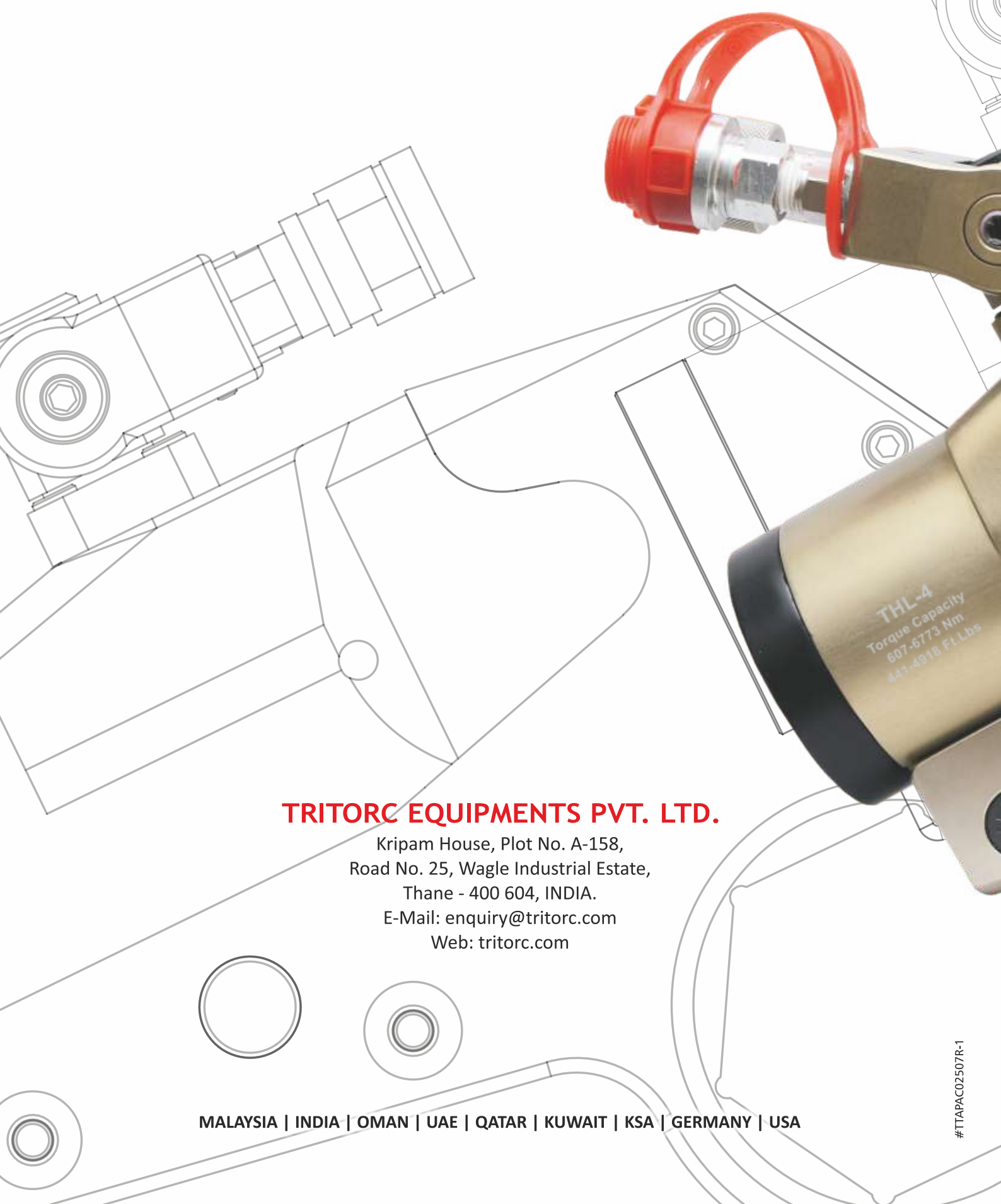
Bolt Size	A/F	Bolt Grade: 8.8				Bolt Grade: 10.9				Bolt Grade: 12.9				Bolt Size	A/F	Bolt Grade: B7/B16			
		Torque Values (Nm)			Tension (kN)	Torque Values (Nm)			Tension (kN)	Torque Values (Nm)			Tension (kN)			Torque Values (Nm)			Tension (kN)
		μ=0.10	μ=0.15	μ=0.2		μ=0.10	μ=0.15	μ=0.2		μ=0.10	μ=0.15	μ=0.2				μ=0.10	μ=0.15	μ=0.2	
M16	24	121	165	208	54	171	232	292	76	205	278	351	91	5/8"	1.1/16"	126	171	215	57
M18	27	165	224	283	66	233	316	399	92	279	379	478	111	-	-	-	-	-	-
M20	30	237	322	406	85	333	452	571	119	400	543	685	143	3/4"	1.1/4"	226	306	387	85
M22	32	327	443	560	106	459	623	787	149	551	748	945	179	7/8"	1.7/16"	366	496	627	117
M24	36	409	556	702	122	576	781	987	171	691	938	1184	206	-	-	-	-	-	-
M27	41	608	828	1043	161	855	1161	1467	226	1027	1393	1760	272	1"	1.5/8"	549	745	941	154
M30	46	820	1113	1406	195	1154	1566	1978	275	1384	1879	2373	330	1.1/8"	1.13/16"	816	1107	1398	204
M33	50	1128	1531	1933	244	1586	2152	2719	343	1903	2583	3263	412	1.1/4"	2"	1157	1570	1983	260
M36	55	1442	1957	2472	286	2028	2752	3476	402	2433	3302	4171	483	1.3/8"	2.3/16"	1582	2147	2712	324
M39	60	1881	2553	3225	345	2646	3590	4535	485	3175	4308	5442	581	1.1/2"	2.3/8"	2100	2850	3600	394
M42	65	2317	3145	2973	394	3259	4423	5587	554	3911	5307	6704	665	1.5/8"	2.9/16"	2720	3692	4663	471
M45	70	2912	3952	4992	462	4095	5558	7021	650	4914	6670	8425	780	1.3/4"	2.3/4"	3452	4685	5917	555
M48	75	3490	4737	5984	519	4909	6662	8415	730	5890	7994	10097	877	1.7/8"	2.15/16"	4304	5841	7378	645
M52	80	4545	6169	7792	624	6392	8675	10958	878	7670	10410	13149	1054	2"	3.1/8"	5285	7173	9060	743
M56	85	5642	7658	9673	720	7935	10768	13602	1012	9522	12922	16323	1214	2.1/4"	3.1/2"	7674	10414	13155	959
M60	90	7076	9603	12130	842	9951	13504	17058	1185	11941	16205	20470	1422	-	-	-	-	-	-
M64	95	8535	11583	14631	953	12002	16289	20575	1340	14403	19547	24690	1607	2.1/2"	3.7/8"	10691	14509	18327	1203
M68	100	10405	14121	17838	1093	14632	19858	25084	1537	17559	23830	30101	1844	2.3/4"	4.1/4"	13038	17694	22350	1333
M72	105	12530	17005	21480	1243	17620	23913	30206	1748	-	-	-	-	-	-	-	-	-	-
M76	110	14926	20265	25857	1403	20989	28485	35981	1973	-	-	-	-	-	-	-	-	-	-
M80	115	17608	23811	30185	1572	-	-	-	-	-	-	-	-	3"	4.5/8"	17104	23213	29321	1603
M85	120	21390	29029	36669	1797	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M90	130	25676	34847	44017	2038	-	-	-	-	-	-	-	-	3.1/4"	5,,	21938	29774	37609	1898
M95	135	30500	41393	52286	2329	-	-	-	-	-	-	-	-	3.1/2"	5.3/8"	27607	37467	47326	2218
M100	145	35893	48712	61531	2564	-	-	-	-	-	-	-	-	3.3/4"	5.3/4"	34176	46382	58588	2563
M105	150	41886	56846	71805	2849	-	-	-	-	-	-	-	-	4"	6.1/8"	41712	56610	71507	2933
M110	155	48511	65837	83162	3150	-	-	-	-	-	-	-	-	-	-	-	-	-	-

μ=0.10 - Lubricated Bolts
μ=0.15 - Semi Lubricated Bolts
μ=0.2 - Dry Bolts

Newton - Meter Nm to Foot-Pounds 1df. ft. (1Nm = 0.738 1bf. ft.)
Kilogram - Force Meter to Newton - Meter (1Kgm = 9.80 Nm)

TRITORC

PIPELINE SOLUTIONS



TRITORC EQUIPMENTS PVT. LTD.

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