



*WHAT THE
PROS USE*





PATENTED TOOLS THAT WORK

Since 1981, Torq/Lite® has been manufacturing tools for its own industrial bolting service, Francis Torque Service. These tools are depended on in our business every day. Our standards demand they be accurate and durable. Above all, they must work "in the field".

Our service background has assisted our manufacturing facility in creating the most user-friendly and durable hydraulic wrench on the market today! We don't just say we are the best, we back it up! Our competitively priced XL-Series hydraulic wrenches come with our industry first, 3 Year – 2-Tier warranty, that is hands down the best standard warranty on the market today! At Torq/Lite® we know that you, our customer, are our business and we aim to build our business through an emphasis on product quality and customer satisfaction.

To our current customers, we thank you for your business! To those who are taking a look at Torq/Lite® as an option, we thank you for the opportunity!

**TWICE THE
QUALITY
TWICE THE
VALUE
ONLY HALF THE PARTS**



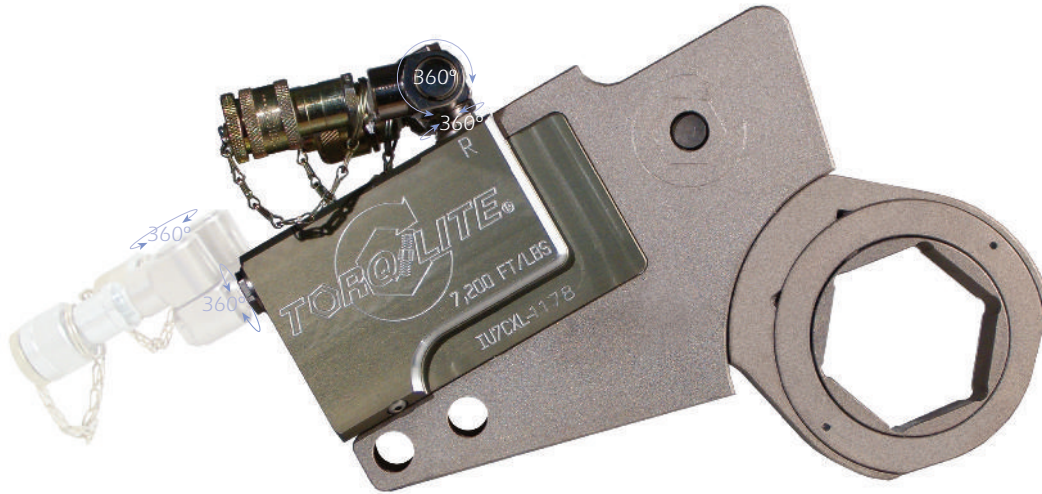


INLINE DRIVE IU-XL SERIES Ratchet Wrench

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

For Assistance Outside the U.S. Call: 713-983-7171



Inline ratcheting wrenches require minimum clearance while applying torque on the same plane as the nut, providing a marked improvement over square drive socket wrenches. Our patented design breakthrough reduced the overall dimensions of the inline ratcheting head allowing it to fit almost every application. Our IU-XL Series tool capacities range from 100 to 50,000 foot pounds of torque using a 10,000 p.s.i. hydraulic pump. **"Extra light, dependable, and fits where others can not"**

- 
Inline Drive - Standard fractional head sizes from 3/4" to 7-1/4" and 19mm to 185mm nuts across the flats. Special sizes available upon request.
- 
Precision Machined - increases accuracy, durability and repeatability.
- 
Unibody - Eliminates "Pinch Points".
- 
360° Swivel Fittings (Patented) - Allow hose movement without hose binding. Stainless steel with fewer moving parts - a great improvement over competitors' delicate design. (Dual plane swivel fittings shown on wrench above.)
- 
Slotted Piston Rod - Maintains 90° relationship between piston rod and nut. Increases accuracy. Reduces number of moving parts.
- 
Cylinder - Made of TL T-6 durable, high-strength, lightweight aircraft alloy with the same sturdy, dependable and accurate design (as steel cylinder).
- 
Fast Head Exchange - Spring retaining-clip allows for quick and simple changing of various head sizes.
- 
Reaction Pad - Reacts against adjacent nut. No reaction member necessary.
- 
Multi-Axis Porting System - The Torq/Lite® IU-XL Series tools are the first and only system that allows the swivels to be manually relocated from the top of the tool to the back of the tool (or vice versa) using only simple hand tools!
- 
Drive Pin Design (Patented) - Reduces overall dimensions of hex head including a thinner "nose" radius. Fits more applications, including all 57 A.P.I. flanges.
- 
Coated - All exposed parts to resist corrosion.
- 
Light/Ergonomic - Reduces operator fatigue.
- 
Calibrated - Every tool is tested and calibrated to ± 0.3 accuracy, traceable to N.I.S.T.
- 
Warranty - Torq/Lite® IU-XL Series wrenches come with a 3 Year – 2 Tier warranty, that is the best standard warranty on the market today! We stand behind our wrenches like no other!



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INLINE DRIVE IU-XL SERIES Ratchet Wrench

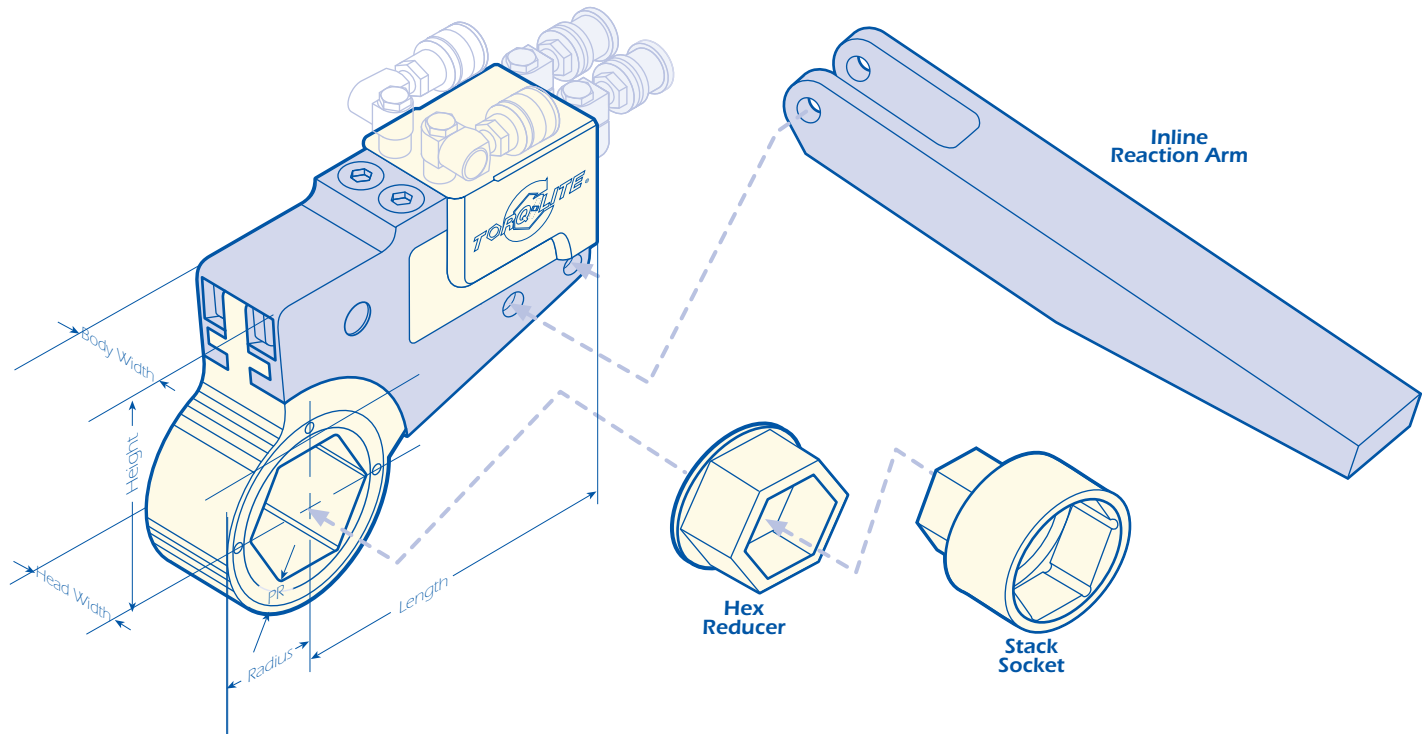
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Ratchet Wrench

(Available Upon Request) **Accessories**



IU-XL Series	Min.-Max. Ft. Lbs. @ 10,000 psi (+/- 3%)	Min.-Max. Nm @ 700 bar (+/- 3%)	Length	Height Width	Body Width	Head	Range with Head	Weight
IU-1XL	117/1,294	159/1,754	6.250"	4.000"	1.100"	.950"	3/4" - 2"	7.25 lbs.
IU-3XL	294/3,074	399/4,168	7.000"	5.750"	1.450"	1.075" or 1.200"	1-1/4" - 2-15/16"	9.25 lbs.
IU-7XL	667/6899	904/9,354	9.250"	6.250"	1.500"	1.500"	2" - 3-7/8"	14.00 lbs.
IU-10XL	990/9,900	1,342/13,423	9.750"	8.000"	1.950"	1.950"	2-3/8" - 4-1/4"	24.50 lbs.
IU-17XL	1,513/15,951	2,051/21,627	11.250"	9.250"	1.950"	2.450"	2-3/4" - 5-3/8"	42.00 lbs.
IU-25XL	2,260/23,620	3,064/32,024	11.250"	9.250"	2.900"	2.950"	3-1/2" - 5-3/4"	57.00 lbs.
IU-50XL [§]	3,475/44,785	4,711/60,720	15.375"	10.500"	2.900"	2.950"	4-5/8" - 7-1/4"	85.00 lbs.

* 1-1/4" to 2" Heads † 2-3/16" to 2-15/16" Heads § Steel Cylinders Only

IU-1XL Heads			IU-3XL Heads			IU-7XL Heads			IU-10XL Heads			IU-17XL Heads			IU-25XL Heads			IU-50XL Heads		
ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R
3/4"	1.07"	0.41"	1-1/4"	1.38"	0.35"	2"	1.80"	0.47"	2-3/8"	2.02"	0.45"	2-3/4"	2.50"	0.90"	3-1/2"	2.90"	0.87"	4-5/8"	3.92"	1.25"
1-1/16"	1.18"	0.34"	1-7/16"	1.46"	0.35"	2-7/16"	1.88"	0.47"	2-9/16"	2.15"	0.47"	2-15/16"	2.62"	0.90"	3-7/8"	3.18"	0.95"	5"	4.13"	1.25"
1-1/4"	1.29"	0.34"	1-5/8"	1.57"	0.35"	2-3/8"	2.02"	0.47"	2-3/4"	2.40"	0.55"	3-1/8"	2.70"	0.90"	4-1/4"	3.35"	0.90"	5-3/8"	4.35"	1.25"
1-7/16"	1.40"	0.34"	1-13/16"	1.70"	0.40"	2-9/16"	2.15"	0.47"	2-5/16"	2.55"	0.50"	3-1/2"	2.90"	0.90"	4-5/8"	3.58"	0.90"	5-3/4"	4.57"	1.25"
1-5/8"	1.51"	0.34"	1-7/8"	1.79"	0.46"	2-3/4"	2.40"	0.55"	3-1/8"	2.62"	0.55"	3-7/8"	3.18"	0.95"	5"	3.85"	0.96"	6-1/8"	4.78"	1.25"
1-13/16"	1.61"	0.34"	2"	1.79"	0.40"	2-15/16"	2.55"	0.50"	3-1/2"	2.85"	0.85"	4-1/4"	3.35"	0.96"	5-3/8"	4.10"	1.00"	6-1/2"	5.00"	1.25"
2"	1.72"	0.34"	2-3/16"	1.90"	0.40"	3-1/8"	2.62"	0.55"	3-7/8"	3.07"	0.85"	4-5/8"	3.58"	0.96"	5-3/4"	4.32"	1.02"	6-7/8"	5.22"	1.25"
			2-3/8"	1.97"	0.40"	3-1/2"	2.85"	0.63"	4-1/4"	3.26"	0.85"	5"	3.90"	1.00"				7-1/4"	5.43"	1.25"
			2-9/16"	2.12"	0.46"	3-7/8"	3.04"	0.60"				5-3/8"	4.10"	1.00"						
			2-3/4"	2.24"	0.46"															
			2-15/16"	2.36"	0.46"															

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INLINE DRIVE IU-XL SERIES Ratchet Wrench

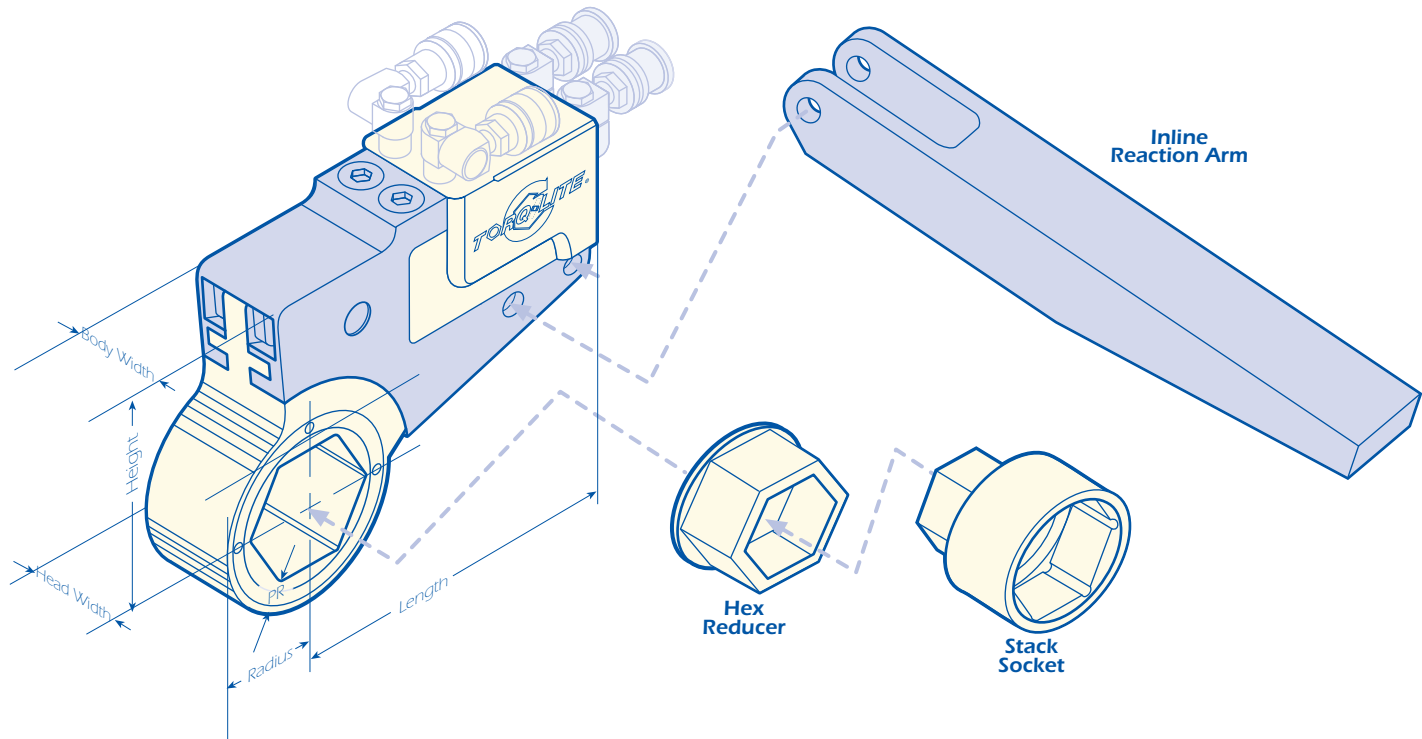
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Ratchet Wrench

(Available Upon Request) **Accessories**



IU-XL Series	Min. - Max. Nm @ 700 bar (+/- 3%)	Min. - Max. Ft. Lbs. @ 10,000 psi (+/- 3%)	Length	Height	Body Width	Head Width	Range	Weight with Head
IU-1XL	159/1,754	117/1,294	159mm	102mm	28mm	24mm	19mm - 51mm	3.29 kg.
IU-3XL	399 /4,168	294/3,074	178mm	146mm	37mm	27mm* or 30mm†	32mm - 75mm	4.20 kg.
IU-7XL	904/9,354	667/6,899	235mm	159mm	38mm	38mm	51mm - 98mm	6.35 kg.
IU-10XL	1,342/13,423	990/9,900	248mm	203mm	50mm	50mm	60mm - 108mm	11.11 kg.
IU-17XL	2,051/21,627	1,513/15,951	286mm	235mm	50mm	62mm	70mm - 137mm	19.05 kg.
IU-25XL	3,064/32,024	2,260/23,620	286mm	235mm	74mm	75mm	89mm - 146mm	25.85 kg.
IU-50XL [§]	4,711/60,720	3,475/44,785						

*32mm to 51mm Heads †56mm to 75mm Heads § Steel Cylinders Only

IU-1XL Heads			IU-3XL Heads			IU-7XL Heads			IU-10XL Heads			IU-17XL Heads			IU-25XL Heads			IU-50XL Heads		
ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R	ATF	Radius	P/R
19mm	27mm	10mm	32mm	35mm	9mm	51mm	46mm	12mm	60mm	51mm	11mm	70mm	64mm	23mm	86mm	74mm	24mm	115mm	100mm	33mm
27mm	30mm	9mm	37mm	37mm	9mm	56mm	48mm	12mm	65mm	55mm	12mm	75mm	67mm	23mm	95mm	81mm	26mm	125mm	105mm	33mm
32mm	33mm	9mm	41mm	40mm	9mm	60mm	51mm	12mm	70mm	61mm	14mm	76mm	69mm	25mm	105mm	85mm	25mm	135mm	110mm	33mm
37mm	36mm	9mm	46mm	43mm	10mm	65mm	55mm	12mm	75mm	65mm	13mm	86mm	74mm	25mm	115mm	91mm	25mm	145mm	116mm	32mm
41mm	38mm	9mm	48mm	45mm	12mm	70mm	61mm	14mm	76mm	67mm	16mm	95mm	81mm	26mm	125mm	98mm	25mm	155mm	121mm	32mm
46mm	41mm	9mm	51mm	45mm	10mm	75mm	65mm	13mm	86mm	72mm	24mm	105mm	85mm	26mm	135mm	104mm	26mm	165mm	127mm	32mm
51mm	44mm	9mm	56mm	48mm	10mm	76mm	67mm	16mm	95mm	78mm	24mm	115mm	91mm	26mm	145mm	110mm	28mm	175mm	133mm	32mm
			60mm	50mm	10mm	86mm	72mm	16mm	105mm	83mm	24mm	125mm	99mm	26mm				185mm	138mm	32mm
			65mm	54mm	12mm	95mm	77mm	16mm				135mm	104mm	26mm						
			70mm	57mm	12mm															
			75mm	60mm	12mm															

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NOTES

1. Maximum load

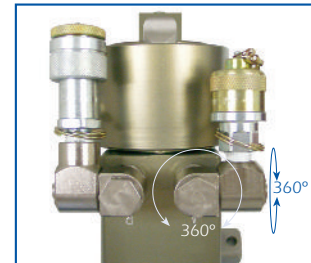
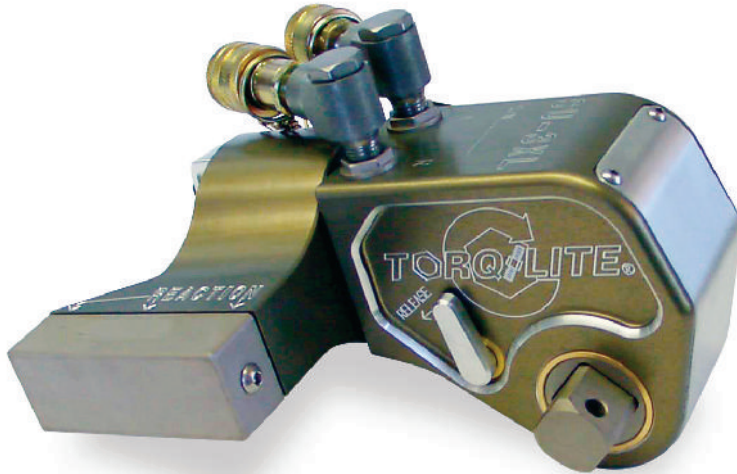


SQUARE DRIVE SU-XL SERIES Ratchet Wrench

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

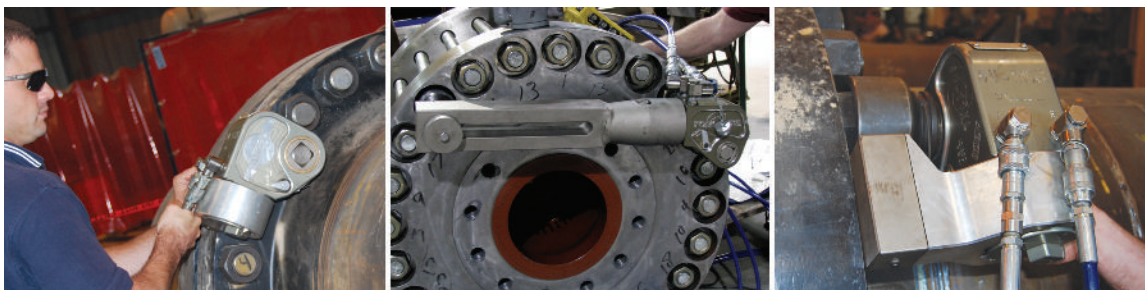
For Assistance Outside the U.S. Call: 713-983-7171



"Dual Plane Swivel Fittings"

A time tested and proven tool design, square drive ratchets offer a cost efficient option to handle a wide range of bolting make-up and break-out needs. The SU-XL Series ratchet employs a "patented design", which increases accuracy and reduces the number of moving parts. TL T-6 XL Series body encloses the drive train assembly, allowing no pinch points and lighter weight. Our standard SU-XL Series tool capacities range from 100 to 60,000 foot pounds of torque using a 10,000 p.s.i. hydraulic pump.

- ⚙️ **Square Drive** - For use with all standard size square drive impact sockets. Easily shifts from make-up to break-out without disassembly.
- ⚙️ **TLT-6** - XL Series bodies made of durable, high-strength, lightweight aircraft alloy.
- ⚙️ **Unibody** - Eliminates "Pinch Points". Reduces side loading. Totally enclosed drive train assembly, allowing nothing in or out of the tool.
- ⚙️ **360° Swivel Fittings (Patented)** - Allow hose movement without hose binding. Stainless steel with fewer moving parts - a great improvement over competitors' delicate design. (Single plane swivel fittings shown on wrench above.)
- ⚙️ **Slotted Piston Rod** - Maintains 90° relationship between piston rod and nut. Increases accuracy. Reduces number of moving parts.
- ⚙️ **Anti-Reverse Pawl** - Holds rotational wind-up to maintain required torque.
- ⚙️ **Pawl Release** - Anti-reverse pawl release mechanism allows manual release of tool if "binding" occurs.
- ⚙️ **Reaction Member** - 48x48 reaction member made of TL T-6 for all SU-XL series models 30,000 ft./lbs. or lower.
- ⚙️ **Coated** - All exposed parts to resist corrosion.
- ⚙️ **Light/Ergonomic** - Reduces operator fatigue.
- ⚙️ **Calibrated** - Every tool is tested and calibrated to ± 0.3 accuracy, traceable to N.I.S.T.
- ⚙️ **Warranty** - Torq/Lite® SU-XL Series wrenches come with a 3 Year – 2 Tier warranty, that is the best standard warranty on the market today! We stand behind our wrenches like no other!



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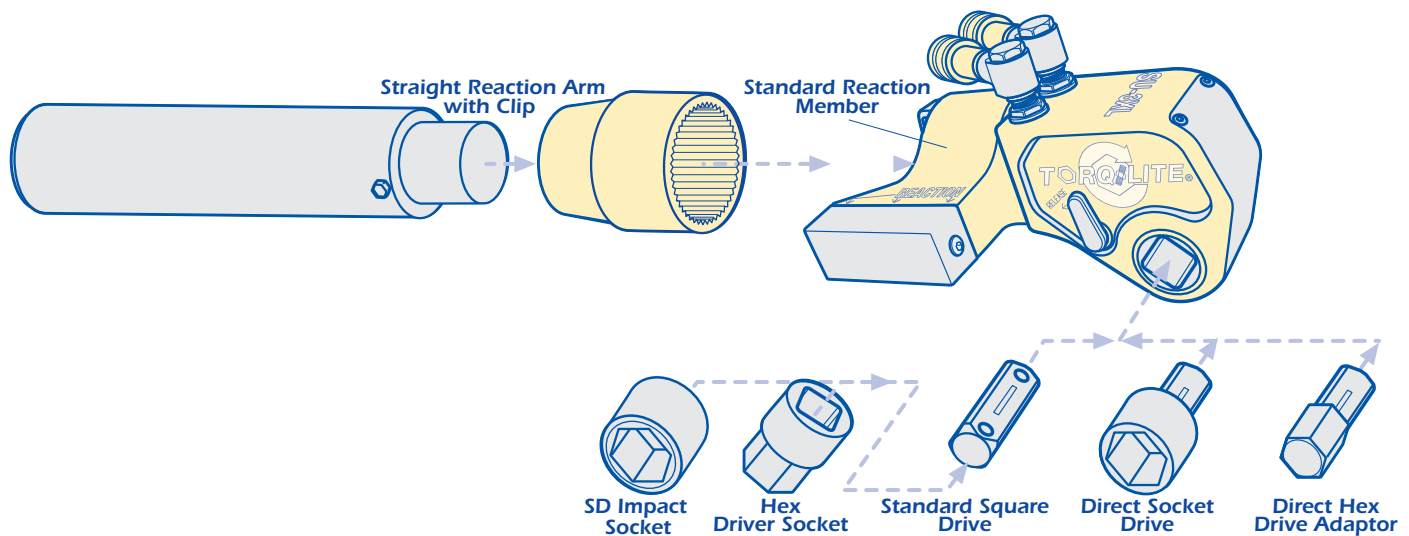
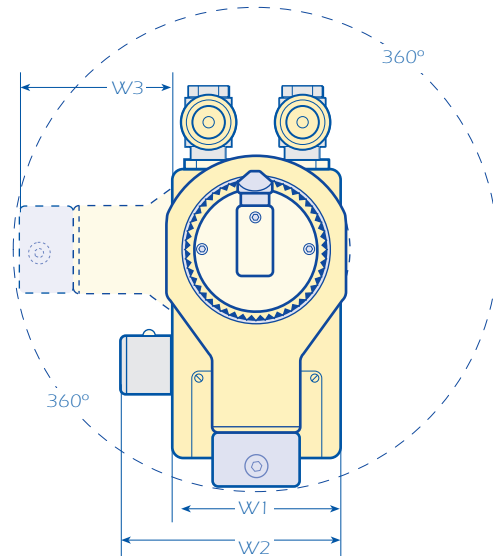
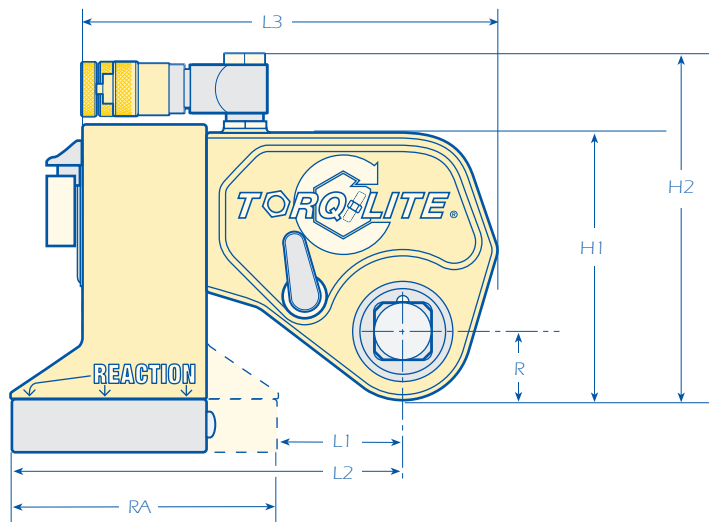


SQUARE DRIVE SU-XL SERIES Ratchet Wrench

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SU-XL Series	Square Drive	Min-Max. Ft. Lbs. @10,000 p.s.i. (+/- 3%)	Min-Max. Nm @ 700 bar (+/- 3%)	Weight*	Reaction Area - RA	Length L1	Length L2	Length L3	Radius R	Height H1	Height H2	Width W1	Width W2	Width W3
SU-1XL	3/4" / 19mm	143/1,382	194/1,874	5.25 lbs.	3.685"	1.567"	5.252"	5.680"	1.200"	4.100"	5.725"	1.980"	2.730"	2.200"
SU-3XL	1" / 25mm	262/2,921	355/3,960	11.25 lbs.	5.335"	1.865"	7.200"	7.720"	1.260"	4.990"	6.615"	2.775"	3.600"	3.172"
SU-6XL	1-1/2" / 38mm	564/5,110	765/6,928	17.20 lbs.	5.460"	2.150"	7.610"	8.080"	1.725"	6.180"	7.800"	3.140"	4.475"	3.501"
SU-8XL	1-1/2" / 38mm	564/5,110	765/6,928	20.00 lbs.	5.460"	2.150"	7.610"	8.410"	1.725"	5.925"	7.850"	3.000"	4.475"	3.501"
SU-11XL	1-1/2" / 38mm	1,038/10,793	1,407/14,633	31.00 lbs.	6.500"	2.245"	8.745"	9.300"	2.062"	7.664"	9.290"	3.900"	5.350"	4.982"
SU-20XL	2-1/2" / 64mm	1,753/17,934	2,377/24,315	73.00 lbs.	7.525"	3.460"	10.375"	11.770"	3.000"	9.490"	11.115"	4.950"	7.450"	5.557"
SU-30XL	2-1/2" / 64mm	2,638/25,804	3,577/34,986	84.00 lbs.	7.525"	3.460"	10.875"	11.890"	3.125"	10.375"	12.000"	5.875"	8.375"	5.555"
SU-45XL†	2-1/2" / 64mm	4,400/46,631	5,966/63,223	145.00 lbs.	7.425"	7.337"	12.537"	13.312"	3.275"	11.225"	12.600"	5.750"	8.250"	5.500"
SU-60XL†	2-1/2" / 64mm	5,113/54,905	6,932/74,441	295.00 lbs.	8.781"	5.887"	14.668"	16.000"	3.750"	14.000"	15.600"	7.250"	9.750"	5.750"

*Weight includes tool, reaction member, and square drive. †Steel Casting

**Please inquire for additional information.

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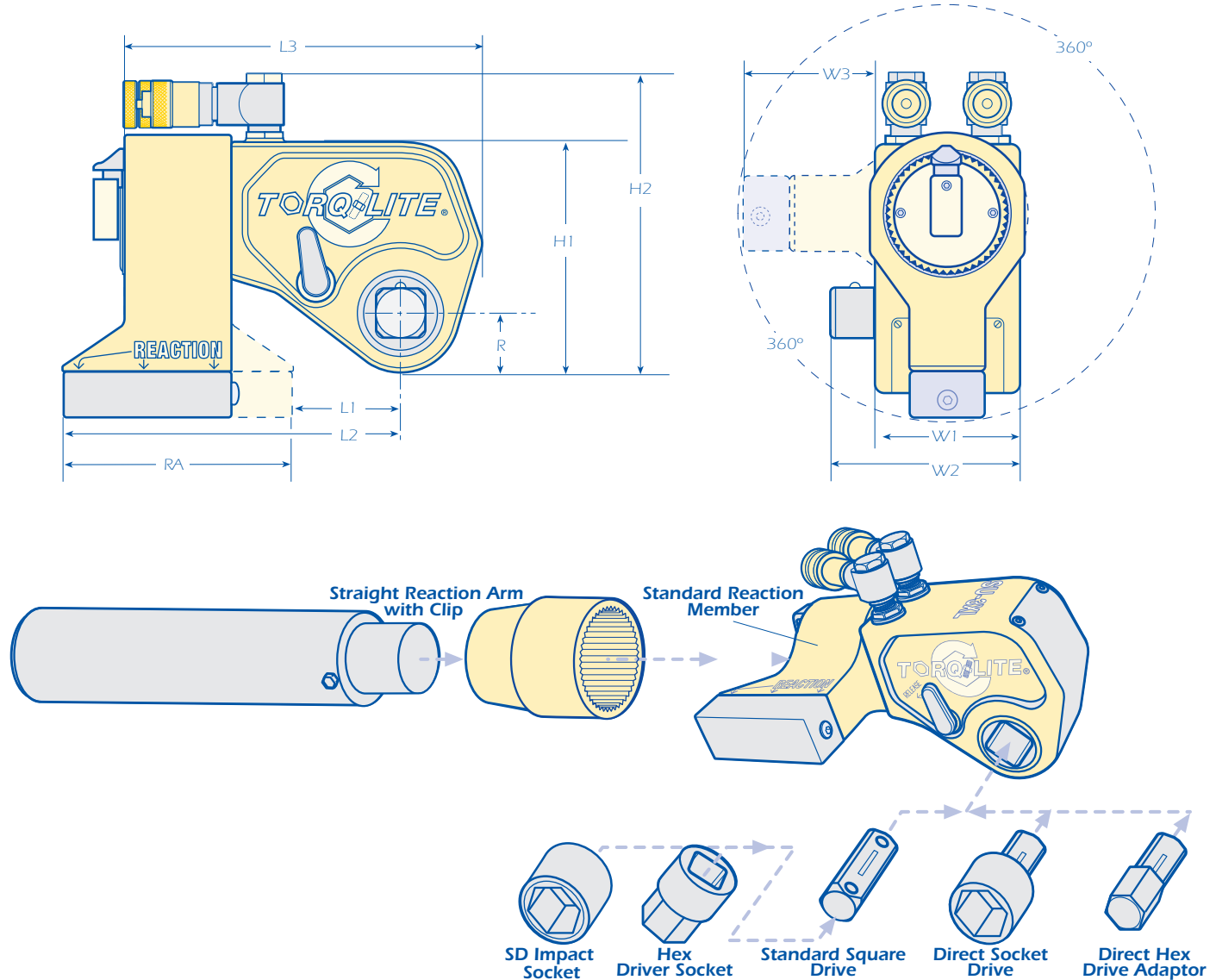


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SU-XL Series	Square Drive	Min-Max. Nm. @ 700 bar (+/- 3%)	Min-Max. Ft. Lbs. @10,000 p.s.i. (+/- 3%)	Weight	Reaction RA	Length L1	Length L2	Length L3	Radius R	Height H1	Height H1	Width W1	Width W2	Width W3
SU-1XL	3/4" / 19mm	194/1,874	143/1,382	2.38kg.	94mm	40mm	133mm	151mm	30mm	104mm	145mm	50mm	69mm	56mm
SU-3XL	1" / 25mm	355/3,960	262/2,921	5.10kg.	136mm	47mm	183mm	202mm	32mm	124mm	166mm	70mm	91mm	81mm
SU-6XL	1-1/2" / 38mm	765/6,928	564/5,110	7.80kg.	139mm	55mm	193mm	214mm	44mm	151mm	199mm	76mm	114mm	89mm
SU-8XL	1-1/2" / 38mm	765/6,928	564/5,110	7.80kg.	165mm	55mm	193mm	214mm	44mm	151mm	199mm	76mm	114mm	127mm
SU-11XL	1-1/2" / 38mm	1,407/14,633	1,038/10,793	13.56kg.	127mm	57mm	222mm	239mm	52mm	187mm	232mm	99mm	136mm	127mm
SU-20XL	2-1/2" / 64mm	2,377/24,315	1,753/17,934	28.12kg.	191mm	88mm	264mm	295mm	76mm	233mm	274mm	126mm	189mm	141mm
SU-30XL	2-1/2" / 64mm	3,577/34,986	2,638/25,804	34.01kg.	191mm	88mm	276mm	298mm	79mm	248mm	289mm	149mm	213mm	141mm
SU-45XL[†]	2-1/2" / 64mm	4,400/46,631	5,966/63,223	56.77kg.	189mm	186mm	318mm	338mm	83mm	285mm	320mm	146mm	210mm	140mm
SU-60XL[†]	2-1/2" / 64mm	5,113/54,905	6,932/74,441	133.80kg.	223mm	150mm	373mm	406mm	95mm	356mm	396mm	184mm	248mm	146mm

*Weight includes tool, reaction member, and square drive. [†]Steel Casting

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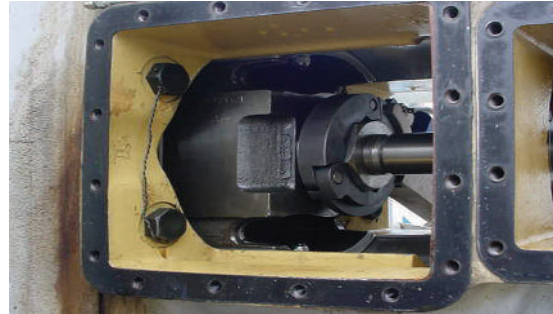
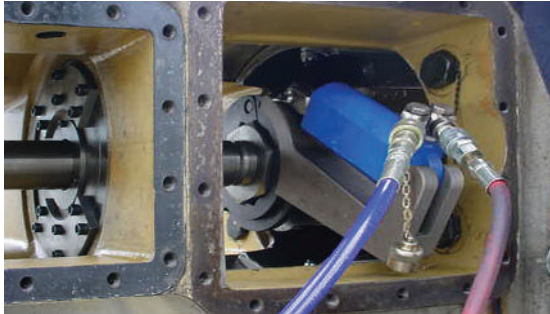
JN SERIES

Hydraulic Wrench

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

For Assistance Outside the U.S. Call: 713-983-7171



Our patented JN-Series Hydraulic Wrench is designed specifically for Fast, Safe and Accurate tightening or loosening of Top Drive Packing Nuts and Gas Compressor Piston Rod Crosshead Jam Nuts. However, with use of one of our innovative, in-house specialty adapters/inserts, the wrench can be used to turn any nut that faces the problem of having a shaft, rod or tube running through its center. The Torq/Lite® JN-Series hydraulic wrench features a patented "split-head" design, enabling the tool to fit over the wash pipe or piston rod and around your packing nut or jam nut. Our standard JN-Series wrench capacity ranges from 100 to 32,000 foot pounds of torque using a standard bi-directional 10,000 p.s.i. hydraulic pump.

 **Patented "Split-Head" Design** - The "split-head" itself or through use of a special made adapter/insert can fit any size or type Top Drive Packing Nut, OEM Jam Nut, hex or any other configuration. This eliminates the need for expensive after market nuts while also giving you never before Accuracy, Speed and Safety!!!

 **Fast** - The patented "split-head" design can be placed around the wash pipe, piston rod or any other type of shaft, rod, pipe or tube and on the nut or adapter/insert in less than one minute. Accurate tightening or loosening of the jam nut is easily achieved in just a few seconds!

 **Safe** - The JN-Series Hydraulic Wrench eliminates unsafe hammer wrenches, hydraulic jacks or cranes, and other unsafe equipment currently being used to turn these nuts.

 **Accurate** - This fast hydraulic wrench, designed specifically to deal with Top Drive Packing Nuts and Crosshead Jam Nuts, provides accuracy to $\pm .03$ with the use of a standard bi-directional 10,000 p.s.i. hydraulic pump.

 **Functional** - The JN-Series hydraulic wrench will work equally well in either Top Drive bonnet assemblies or either compressor crosshead access ports. It will work right-side up or upside-down, sideways, etc...for both loosening and tightening.

 **Reaction Pad** - Reacts against either the Top Drive bonnet window opening or the Compressor crosshead structure.

 **Coated** - All exposed parts to resist corrosion.

 **360° Swivel Fittings (Patented)** - Allows hose movement without hose binding. Stainless steel with fewer moving parts..

 **Light/Ergonomic** - Reduces operator fatigue. Tool can also be used with an overhead spring balancer, which allows you to set the tool as light as 1 pound.

 **Calibrated** - Every tool is tested and calibrated to $\pm .03$ accuracy, traceable to N.I.S.T.

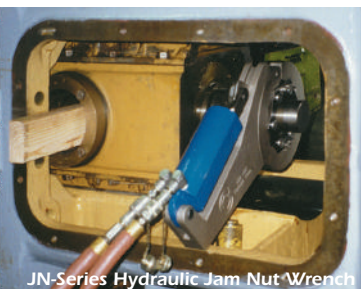
Bi-directional pivot allows "Split-Head" to open two ways!



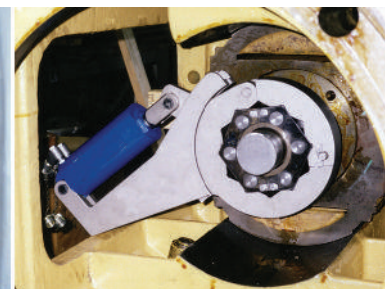
GUARANTEED FOR LIFE



JN-Series Top Drive Packing Wrench



JN-Series Hydraulic Jam Nut Wrench



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JN SERIES

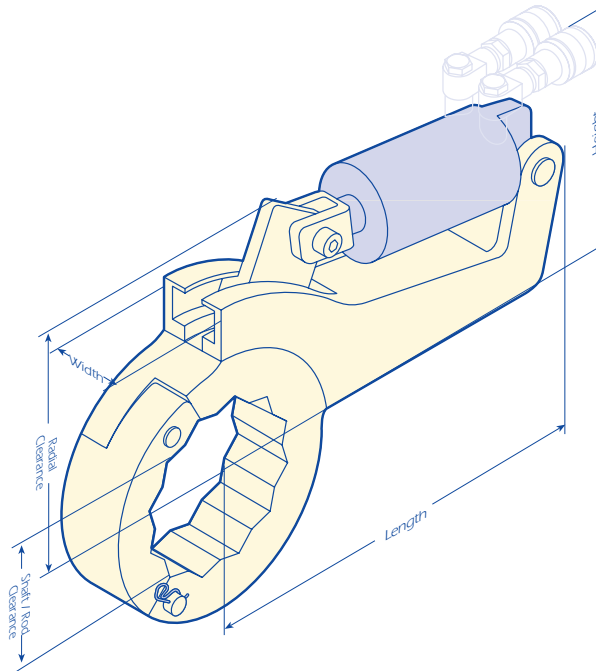
Hydraulic Wrench

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

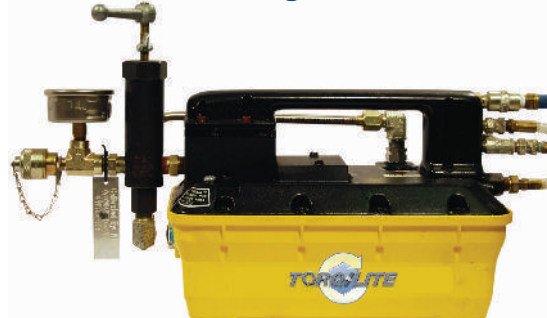
For Assistance Outside the U.S. Call: 713-983-7171

Compressor Crosshead Jam Nuts and Top Drive Packing Nuts



JN Series	Max. Ft. Lbs. @ 10,000 psi	Length	Height	Width	Radial Clearance	"Split-Head" Range	Weight with Head
JN-4	3,650	13.044"	7.014"	1.950"	5.000"	2" – 4 ⁵ / ₈ "	28 lbs.
JN-30	8,400	10.659"	7.014"	1.950"	5.000"	3 ³ / ₈ " – 4 ⁵ / ₈ "	28 lbs.
JN-20	20,100	14.056"	9.117"	1.950"	7.372"	4 ⁵ / ₈ " – 6"	40 lbs.
JN-30	32,000	16.000"	10.446"	1.950"	8.825"	6" – 8 ¹ / ₄ "	57 lbs.
JN-40	38,396	19.126"	12.500"	2.950"	10.070"	4 ⁵ / ₈ " – 10"	105 lbs.

JNAHC-10 Turbo Air/Hydraulic Pump



Reservoir Capacity - 150 cubic inches

Flow Rated Pressure - 8 cubic inches/minute.

Air Pressure Range - 40–150 psi

Air Consumption - 12scfm

Maximum Operating Pressure - 10,000 psi

Button Pendant - Controls hydraulic advance/extend and air retract/return.

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Electric/Hydraulic & Air/Hydraulic POWER CONSOLES

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Standard Electric Hydraulic Torque Wrench Pump



These pumps have been continually upgraded over the last 40 years and even some of the originals are still in service! Equipped with a 1-1/8 hp, single phase universal motor, they have a noise level of 90-95 dBA. Offer an incredible weight to performance ratio for any of our electric/hydraulic pumps, and are CSA rated for intermittent duty.

- Two-speed High Performance Pump
- External Adjustable Pressure Regulator
- Retract Side Internal Relief Valve
- Use for double or Single Acting Tools

- Hand Remote Control w/30-foot Cord
- Electric Motor
 - 1-1/8 hp, 12,000 rpm
 - 115V, 25 amps
 - 110V/50Hz, 25amps
 - 220V/50Hz, 13 amps

Console Model	Source	Power Req.	Oil Delivery	Oil Reservoir	Usable Oil	Overall width	Overall Length	Overall Height	Weight w/Oil
TL-SEHC	Electric 1-1/8 HP	115V, 110V 220V	704 in ³ @ 100 psi 56 in ³ @ 10,000 psi	2.5 Gallons	525 inches ³	17.14 inches	9.5 inches	18.12 inches	75 pounds

Standard Air/Hydraulic Torque Wrench Pump



- Use where air is the preferred source of power
- External adjustable pressure regulator
- Retract side internal relief valve
- Use for double or single acting tools
- Pneumatic remote control w/30-foot cord
- Powerful 3hp motor starts under load

Console Model	Source	Oil Delivery	Oil Reservoir	Usable Oil	Overall width	Overall Length	Overall Height	Weight w/Oil
TL-SAHC	Pneumatic 3 HP	465 in ³ @ 100psi 55 in ³ @ 10,00psi	2.5 Gallons	590 inches ³	16.55 inches	9.5 inches	19.83 inches	65 pounds

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Electric/Hydraulic POWER CONSOLES

Low Voltage - Continuous Duty

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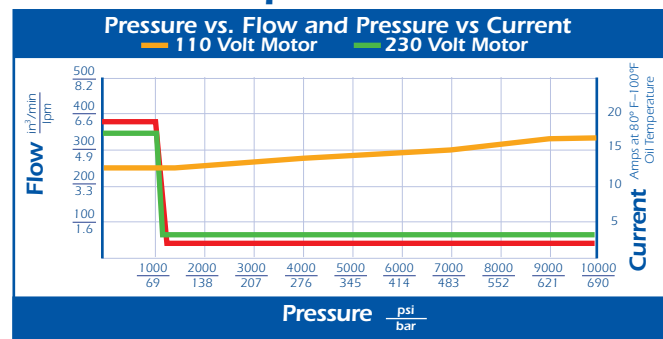
TL-TP (110) and TL-TP (230) Models

Hydraulic power unit engineered to continuously and reliably operate a variety of hydraulically powered torque wrenches operating up to 700 bar / 10,150 psi.

This compact design utilizes a finned housing with integral fan that eliminates the need for an external cooler. Directly mounted pressure and directional control valves eliminate additional plumbing and potential leak points while keeping the unit compact.

Pendant control for manual advance and automatic retract operation.

Pump Flow Chart



Model Number	Motor Voltage	Electricity	Power	Maximum Nameplate Current	Maximum Advance Pressure	Pressure @ 15 Amp Motor Current (with 80° F – 100° F Oil Temp)	Retract Pressure
TLTP (110)	110/120 V	60 Hz 1 Phase	1.5 KW 2Hp	20.5 A	700 bar 10,150 psi	475–500 bar 6,890–7,250 psi	120 bar 1,740 psi
TLTP (230)	230 V	50 Hz 1 Phase	1.5 KW 2Hp	10.5 A	700 bar 10,150 psi	n/a n/a	120 bar 1,740 psi

Model Number	Advance Flow Rate 0–100 bar / 0–1500 psi	Advance Flow Rate 100–700 bar / 1,500–10,150 psi	Reservoir Capacity	Usable Oil	Noise Level @ 300 bar	Unit Weight w/Oil	Control Pendant Length
TLTP (110)	6.31 lpm 386 in ³ /min	0.91 lpm 52 in ³ /min	3.7 liter 1.0 gal	1.7 liter 0.5gal	68–70 dB	34 kg 75 lb	6 meter 20 foot
TLTP (230)	5.60 lpm 340 in ³ /min	1.10 lpm 67 in ³ /min	3.7 liter 1.0 gal	1.7 liter 0.5gal	68–70 dB	34 kg 75 lb	6 meter 20 foot

www.torqlite.com



1500 BAR SYSTEM

Hydraulic Tensioners

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

For Assistance Outside the U.S. Call: 713-983-7171



TL-21

TL-23

TL-25

TL-27

The Torq/Lite® 1500 bar system combines high load capacity with light weight tooling. Designed for long life operation, these tools are ideal for fast, accurate and reliable bolt tensioning of standard flanges on many types of plants including oil, gas, petrochemical, offshore, etc... Engineered from high strength steel alloys to provide unparalleled safety and tool life. They are available from 3/4" to 4" plus the full range of metric sizes, are extremely versatile with each hydraulic head capable of accommodating up to 8 metric and imperial threadforms with the standard adaptor equipment also supplied, have been engineered to fit all of the most popular flange classes (including ANSI 16.5, API 605, MSS SP44, etc.), can easily be customized to suit a special application if required. Available on quick delivery, these tools are cost effective and easy to use.

 **Single or twin hydraulic connections**

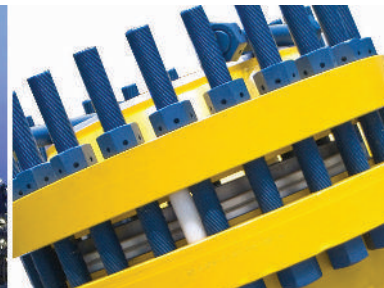
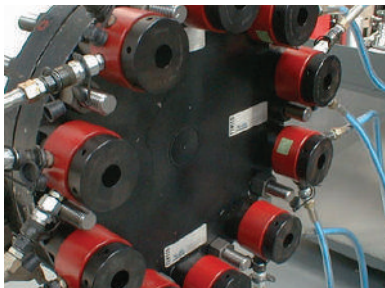
 **Available in various surface finishes**

 **Provide 15mm stroke - (12mm for T21)**

 **Feature long-life composite seals**

 **Highly visible maximum stroke indicator**

 **Fits standard pipe flanges above 4 inch NB**



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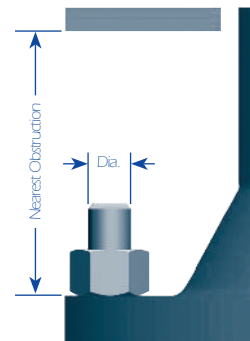
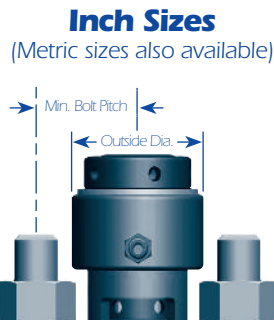
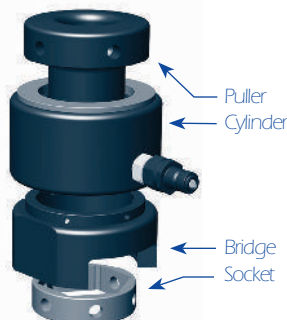
1500 BAR SYSTEM

Hydraulic Tensioners

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For Assistance Outside the U.S. Call: 713-983-7171



Tool Model Number	Bolt Diameter inch	Minimum Bolt Pitch mm	Stroke mm	Hydraulic Area mm ²	Maximum Load kN	Tool Outside Diameter mm	Nearest Obstruction mm	Weight of Tensioner and Attachments
TL-21	3/4	53	12	1,555	233	73	145	2.3 kgs
	7/8	53						2.2 kgs
	1	62						2.2 kgs
	1-1/8	62						2.1 kgs
TL-22	1-1/4	73	15	2,884	433	108	175	5.5 kgs
	1-3/8	81						5.4 kgs
	1-1/2	83						5.7 kgs
TL-23	1-5/8	93	15	5,271	791	136	200	9.5 kgs
	1-3/4	96						9.2 kgs
	1-7/8	101						10.0 kgs
	2	104						9.7 kgs
TL-24	2-1/4	123	15	8,445	1,267	172	230	16.2 kgs
	2-1/2	129						16.4 kgs
TL-25	2-3/4	150	15	12,197	1,830	200	255	25.6 kgs
	3	154						24.8 kgs
TL-26	3-1/4	176	15	16,682	2,502	235	288	35.9 kgs
	3-1/2	185						36.3 kgs
TL-27	3-3/4	191	15	17,530	2,629	245	320	42.3 kgs
	4	197						40.3 kgs
TL-29	1-7/8	112	15	6,983	1,047	156	230	13.5 kgs
	2	115						13.3 kgs
	2-1/4	120						13.0 kgs

NOTES

1. Maximum load is generated at the maximum operating pressure of 1500 bar.
2. Unless specified inch size tooling will be threaded UNC up to 1 inch and UN8 for 1-1/8 inch upwards.
3. Equivalent metric sizes are also available. Specify diameter and thread pitch when ordering.
4. This range of tooling has been designed to suit most standard flanges used in the oil and gas industry
5. Each tool comprises one Hydraulic Cylinder, Bridge, Puller and Socket.
6. Extra Bridges Pullers and Sockets can be purchased to adapt the Hydraulic Cylinder to fit other bolt sizes.
7. All tools are assembled, filled with oil, pressure tested and a test certificate issued prior to despatch.
8. Each tool is marked with the maximum operating pressure, load and stroke. All tools are CE marked.
9. Any number of tools can be connected together for simultaneous operation.
10. Pullers can be machined with other thread forms - specify when ordering.
11. Larger bolt sizes are available. Send application details.
12. Tools are fitted with self sealing quick connectors.
13. Due to continuous product development dimensions may change without notice.

OPTIONS AVAILABLE

1. Twin Hydraulic Connections
2. Other thread forms
3. Special Designs.

www.torqlite.com



SUB-SEA TOOLING

Hydraulic Tensioners

ISO 9001 Registered

For Immediate Assistance in the U.S. Call: 877-777-4046

For Assistance Outside the U.S. Call: 713-983-7171



Split Reaction Nut

Torq/Lite® standard sub sea tool range incorporates a combined body and bridge, lifting eye bolt, 1.18 inch (30 mm) piston stroke, 21,750 psi (1500 bar) operating pressure, twin hydraulic connections, a maximum piston stroke indicator and a split reaction nut. Lower cost solid reaction nuts are also available. These tools are fitted with composite material high pressure seals which clip into place and require no adjustment.

All Torq/Lite® tools are assembled, filled with oil and pressure tested prior to despatch. They are also designed to conform to the European Pressure Equipment Directive and where required are CE marked. Torq/Lite® tools are supplied with a comprehensive Health & Safety Operating and Maintenance Instruction Manual.

Standard tools are fitted with two self sealing quick connectors. This can be either two nipples or one coupling and one nipple. Customer should specify when ordering.

- 🔧 **21,750 psi (1500 bar)**
- 🔧 **High Initial Bolt Stress**
- 🔧 **Long 1.18 inch (30 mm) piston stroke**
- 🔧 **Maximum Stroke Indicator**
- 🔧 **Easy Piston Return**
- 🔧 **Long Life Snap Fit Seals**
- 🔧 **Nickel Plated**
- 🔧 **Single or Twin Hydraulic Connections**
- 🔧 **Split or Solid Reaction Nut**
- 🔧 **Fits All Standard Pipe Flange Applications**
- 🔧 **Non-slip Tactile Surface for Easy Handling**
- 🔧 **All Equipment CE Marked**
- 🔧 **All Tools Supplied with Detailed Operating , Maintenance and Safety Manuals**
- 🔧 **24-Hour Technical Support**

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SUB-SEA TOOLING

Hydraulic Tensioners

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Model Number	Bolt Diameter (inches)	Bolt Diameter (mm)	Max. Load (lbf)	Max. Load (kN)	Tool Outside Diameter (mm)	Height w/Split Reaction Nut (mm)	Height w/Solid Reaction Nut (mm)
TL-1	7/8	M24	81,128	361	90	171	156
	1	M27					
	1-1/8	M30					
	1-1/4	M33					
TL-2	1-3/8	M36	121,250	544	109	179	169
	1-1/2	39					
	1-5/8	M42					
TL-3	1-3/4	M45	182,480	812	130	198	188
	1-7/8	M48					
	2	M52					
TL-5	2-1/4	M56	348,330	1550	172	235	232
	2-1/2	M64					
	2-3/4	M72					
TL-5	3	M76	575,760	2562	215	271	268
	-	M80					
	3-1/4	M85					
	3-1/2	M90					

Notes

1. Maximum working pressure of 1500 bar (21,750 psi)
2. Maximum piston stroke = 30 mm (1.81 inch)
3. Five tools cover standard pipe flange connections above 4 inch NB with bolting in the size range 1 inch to 3-1/2 inch diameter

Available

Solid or quick release reaction nuts. Extra sizes are available on request.

Torq/Lite® stocks a range of complimentary pumps, hoses and spare parts



TL-1507-15L-SS
21,750 psi (1500 Bar) Air Driven Power Pack



TL-1590 Hose Reel
21,750 psi (1500 Bar) Air Driven Power Pack

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AIR DRIVEN POWER PACK - SUB SEA

27,750 psi (1500) Bar System

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TL-1507-15L-SS

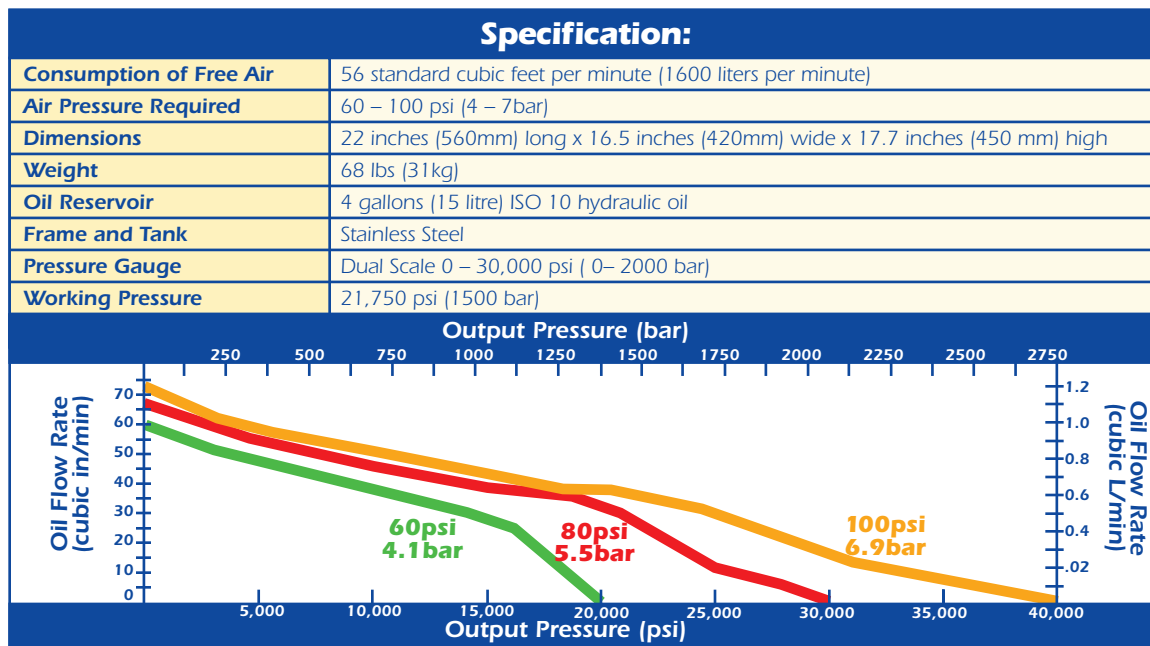


This higher oil delivery, air driven hydraulic pump is mounted in a tubular stainless steel transportable frame. The pack is supplied complete with, air inlet connector, air filter, air pressure regulator, air lubricator, air pressure gauge, air pressure limit valve, pump on/off control, oil reservoir, oil pressure release valve, oil pressure gauge, gauge guard, air/hydraulic pump and high pressure oil outlet through a self sealing quick connect coupling.

TL-1507 is a higher oil flow rate pump designed for use with all Torq/Lite® 1500 bar tooling where speed of operation is essential. Especially useful when using multiple large tools.

Notes:

1. Maximum working pressure of 1500 bar (21,750 psi)
2. Pumps for 14,500 psi to 36,250 psi (1000 bar to 2500 bar) working pressures are available.
3. Custom built power packs, with any number of outlets, to suit your existing tooling or with special features are available on request.



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HYDRAULIC TENSIONERS

Wind Industry/Specialty

ISO 9001 Registered

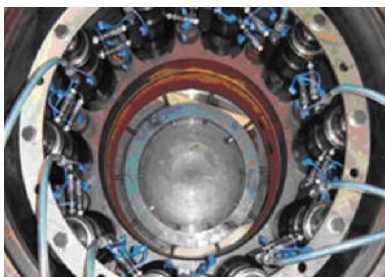
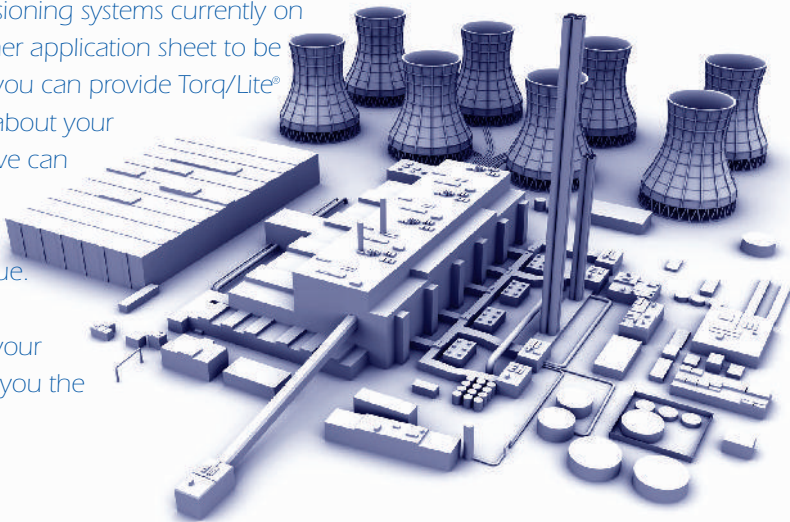
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Torq/Lite® carries a complete line of hydraulic stud tensioners for all industries and applications. Included in the tensioner information are specialty tensioners that we carry for the wind industry including two tensioner options for foundation bolts. When Torq/Lite® tensioners are used in conjunction with our light, ergonomic and dependable tensioner pumps and pump accessories you get one of the most economic, accurate and easily portable tensioning systems currently on the market. Also, see our tensioner application sheet to be filled in by you, the customer. If you can provide Torq/Lite® with the requested information about your specific tensioning application, we can then supply you with the best option to quickly and safely address your job for the best value.

We look forward to servicing all your tensioning needs and showing you the Torq/Lite® difference.



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TL/LTTS - MO42-02-00



Maximum Pressure	Hydraulic Pressure Area	Maximum Load	Maximum Stroke	Approximate Weight
1,500 bar	2714 mm ²	407,000 N	10 mm	6.0 kg
21,750 psi.	4.21 in. ²	91,507 lbf.	394 in.	13.2 lb.

60mm hex nut rotator, pressure advance, spring return, single port, 21,750 psi (1500 bar) maximum operating pressure, single-stage design, ratchet style tensioner engagement, ratchet style nut rotator, positive stop to prevent over-stroking, steel construction, minimal outside diameter to fit into close clearance application when blade is installed on the rotor.



Economy Foundation Tensioner

Maximum Pressure	Hydraulic Pressure Area	Maximum Load	Maximum Stroke	Approximate Weight
1,500 bar	4357 mm ²	407,000 N	10 mm	6.0 kg
21,750 psi.	6.75 in. ²	147,507 lbf.	394 in.	13.2 lb.

Interchangeable Foundation Stud Tensioner designed for Williams or Dyson wind tower foundation studs. Economy design offers ease of use by utilizing an existing foundation stud hex nut. Includes a common load cell and interchangeable tensioner base. Pressure advance, spring return, single port, 21,750 psi (1500 bar) maximum operating pressure, single stage design, and ratchet style nut rotator. Includes a positive stop to prevent over stroking.

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M36 x 4.0 Blade Bolt Installation Tensioner



Maximum Pressure	Hydraulic Pressure Area	Maximum Load	Maximum Stroke	Approximate Weight
1,500 bar	4,467 mm ²	670,000 N	8 mm	-
21,750 psi	6.92 in ²	150,000 lbf	.315 in	-

60mm hex nut rotator, pressure advance, spring return, single port, 21,750 psi (1500 bar) maximum operating pressure, single-stage design, ratchet style tensioner engagement, ratchet style nut rotator, positive stop to prevent over-stroking, steel construction, minimal outside diameter to fit into close clearance application when blade is installed on the rotor.

M36 x 4.0 Gearbox Inspection Tensioner



Maximum Pressure	Hydraulic Pressure Area	Maximum Load	Maximum Stroke	Approximate Weight
1,500 bar	-	927,800 N	10 mm	12.0 kg
21,750 psi	-	208,600 lbf	.394 in	26.5 lb

55mm hex nut rotator, pressure advance, spring return, single port, 21,750 psi maximum operating pressure, two-stage design, ratchet style tensioner engagement, ratchet style nut rotator, positive stop to prevent over-stroking, High-Strength - Light Alloy construction; Slim-line design for close clearance applications, Specially modified base to fit Windpower Gearbox application.

M42 x 4.0 Gearbox Tensioner



Maximum Pressure	Hydraulic Pressure Area	Maximum Load	Maximum Stroke	Approximate Weight
1,500 bar	-	927,800 N	10 mm	12.0 kg
21,750 psi	-	208,600 lbf	.394 in	26.5 lb

65mm hex nut rotator, pressure advance, spring return, single port, 21,750 psi (1500 bar), maximum operating pressure, two-stage design, ratchet style tensioner engagement, ratchet style nut rotator, positive stop to prevent over-stroking, High-Strength - Light Alloy construction; Slim-line design for close clearance applications; Specially modified base to fit Windpower Gearbox application.

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POWER CONSOLE

Hydraulic-Tensioner Pump

ISO 9001 Registered

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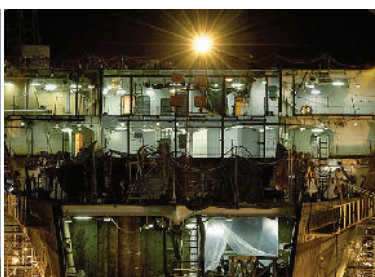
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TLTP 30000-4



- Compact and light weight. Good for shipbuilding, civil engineering and heavy industry..
- Pressure gauge and pressure switch standard accessories
- Automatic low and high pressure two-stage pumps giving very high performance
- 4.5 liter reservoir type pumps as standard. Also available with 2 liter or 7 liter reservoir type pumps

Electric Motor (50/60Hz) Geared Commutator				Hydraulic Pump						
Insulation Type	Voltage (Phase)	Rated Output	Minutes @ 100VAC	Max. Working Pressure (MPa)		Output (Liters/Min)		Reservoir Capacity	Usable Oil	Weight (kg)
				1st Stage	2nd Stage	1st Stage	2nd Stage			
Class E Open Type	100, 200 300 (Single)	0.45kW	10	3.0	200	3.0	0.1	2.0	1.8	15
								4.5	4.0	18
								7.0	6.0	21



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QUALITY IS OUR COMPETITIVE EDGE

1979 — Dale Francis was one of the first to begin using hydraulic torque wrenches on industrial bolting applications.

1981 — Founded Francis Services Inc.



1988 — Introduced a revolutionary inline ratcheting tool for industrial bolting needs and won the OTC "Mechanical Engineering Award" in 1986 for this design.



— Developed and acquired several working patents on various **Torq/Lite®** wrenches

— Launched the first high-speed, high torque, sub sea Riser Tool which was later patented in 2002



1996 — Won the Woelfel "Distinguished Innovation Award" for the Riser Tool at the Offshore Technology Conference.

1999 — Established the world's first "Patented" open gate hydraulic torque wrench. Our JN Series provides creative and safe solutions for difficult bolting situations.



2001 — Introduced the XL "Extra Light" line for our Inline and Square Drive Wrenches to provide maximum strength and capacity with a lighter weight frame.

2003 — Debuted the 2nd generation of our XL series tools.



2005 — Pioneered the patent pending Robo Spider, the world's first and only automated hydraulic torquing system.

2008 —



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