PREDATOR™

By POWER TEAM

PREDATOR SERIES

SUPERIOR QUALITY BOLTING PRODUCTS FOR CONSTRUCTION, WINDPOWER AND OIL & GAS

PROFESSIONAL HYDRAULIC BOLTING SOLUTIONS

Power Team has sales offices and service centers throughout the world. World Headquarters is based in Rockford, Illinois USA and Customer Service Centers are based in The Netherlands, China and Singapore. Power Team can support your local, regional and global needs.

Power Team has served the global bolting industry for years by providing rugged air and electric torque wrench pumps to a large segment of the market. Now, Power Team is adding a broad line of steel body torque wrenches designed to hold up to the most demanding applications.

PREDATOR SERIES SQUARE DRIVE & LOW CLEARANCE TORQUE WRENCHES

The Predator Series of torque wrenches includes both Square Drive (capacities up to 24,700 ft. lbs./ 33,500 Nm) and Low Clearance wrenches (capacities up to 29,000 ft. lbs./ 39,000 Nm). The steel body design provides a compact tool that can be used in the most inaccessible bolting areas found in the industry. Each component on the tools has been optimized to minimize weight without sacrificing strength and durability, using steel alloy, high strength titanium and aluminum. Tools utilize a high grade nickel plated finish, making them suitable for sub-sea application in a salt water environment.

See pages 3-6 for more information on TWSD Square drive and pages 7-10 for TWLC low clearance torque wrenches.

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PREDATOR SERIES HYDRAULIC ELECTRIC & AIR PUMPS

Power Team has long been the market leader in high pressure hydraulic pumps due to their durability and ease of service. Now we raise the bar with our new Predator Series electric and air pumps, the first constant horsepower pump or horsepower limiting pump in the portable hydraulic pump market.

The Predator Series line of pumps, is initially available in a torque wrench configuration. What can torque wrench users expect? In a word..... **SPEED**.

See pages 11-14 for more information on PCHE electric pumps and pages 15-18 for PCHA air pumps.

POWER TEAM LIFETIME MARATHON WARRANTY

HYDRAULIC TORQUE WRENCH SQUARE DRIVE

- **Low Weight, High Strength Design**
  Helps reduce operator fatigue. Comparable weight to aluminum body wrenches
- **Superior Torsional Strength**
  Minimal body twist eliminates the need for a mechanical pawl release
- **Fast Operation Cycle**
  Minimum 30 degrees of rotation per stroke yields up to 40% greater productivity
- **Fine Tooth Pawl**
  Promotes full tooth engagement for longer more durable tool life
- **Floating Piston Design**
  Eliminates off-center loading of the stroking piston for long durable wrench life
- **Simple Design**
  Up to 25% less parts than other wrenches
- **Accurate Torque Output**
  Torsion resistant body provides consistent torque output
- **Fully Enclosed Drive Mechanism**
  Minimizes the potential for pinch points & operator injury
- **Marathon Lifetime Warranty**
  Offers protection against defects in workmanship & material

Internal Swivel Manifold Relief
Limits return side hydraulic pressure for greater operator safety

Rigid Steel Body Construction
Maximum durability for reliable operation

Push Button Reversal of Square Drive
Enables rapid tool change when tightening or loosening

Compact Frame Size
Allows application in tight spaces

Corrosion Resistant Finish
Suitable for sub-sea application in salt water environment

Push to Click Reaction Arm
Simply push-on the reaction arm & feel the "click" of full engagement

360° Reaction Arm
Maximum application flexibility

Multi-Axis High Flow Swivel Manifold

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Order No.	Torque Output		Square Drive		A Length		B Height		C Radius		F Width		G Drive to Arm (front)		H Drive to Arm (rear)		K Center to Arm Base		Product Wt.	
	ft. lbs.	Nm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
TWSD1	1,390	1,880	3/4	19.0	5.5	139	5.7	146	1.1	29	1.3	34	4.4	112	6.7	170	3.4	87	5.1	2.3
TWSD3	3,070	4,160	1	25.4	6.7	169	6.9	176	1.5	39	1.8	45	4.9	124	7.7	196	4.1	105	9.9	4.5
TWSD6	6,020	8,157	1 1/2	38.1	7.7	195	8.1	206	1.8	46	2.0	51	5.6	142	9.3	237	5.4	136	17.4	7.9
TWSD11	10,940	14,823	1 1/2	38.1	9.2	234	9.5	242	2.2	55	2.4	61	7.0	179	11.5	292	6.5	165	28.9	13.1
TWSD25	24,700	33,496	2 1/2	63.5	12.0	306	12.4	314	2.8	72	3.0	77	9.1	231	14.8	375	7.9	200	65.0	29.5

See page 19 for hex drive and socket information

HYDRAULIC TORQUE WRENCH

LOW CLEARANCE

- **Low Weight, High Strength Design**
  Helps reduce operator fatigue. Comparable weight to aluminum body wrenches
- **Superior Torsional Strength**
  Minimal body twist eliminates the need for a mechanical pawl release
- **Fast Operation Cycle**
  Minimum 30 degrees of rotation per stroke yields up to 40% greater productivity
- **Fine Tooth Pawl**
  Promotes full tooth engagement for longer more durable tool life
- **Floating Piston Design**
  Eliminates off-center loading of the stroking piston for long durable wrench life
- **Auto-Connect Drive Piston**
  Simply push the body & link together, advance the wrench & feel the "click" of full engagement
- **Simple Design**
  Up to 25% less parts than other wrenches
- **Consistent Torque Output**
  Accurate torque output over the entire range of the stroking piston
- **Marathon Lifetime Warranty**
  Offers protection against defects in workmanship & material

Corrosion Resistant Finish
Suitable for sub-sea application in salt water environment

Compact Frame Size
Allows application in tight spaces

Small Nose Radius
Enables application in minimal space environments

Built-in Reaction Pad

Rigid Steel Body Construction
Maximum durability for reliable operation

Internal Swivel Manifold Relief
Limits return side hydraulic pressure for greater operator safety

Tool Free Link Change
Enables rapid & easy link change

Multi-Axis High Flow Swivel Manifold

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Order No.	Torque Output ft. lbs.	Torque Output Nm	Link Range A/F in.	Link Range A/F mm	A Length in.	A Length mm	B Height in.	B Height mm	C Height in.	C Height mm	F Radius in.	F Radius mm	G Width in.	G Width mm	H Width in.	H Width mm	Product Wt. w/link lbs.	Product Wt. w/link kg
TWLC2	1,575	2,134	1 1/4 – 2 3/8	32 – 60	7.6	178	4.1	103	5.4	136	1 1/4 – 1 7/8	32–46	1.7	42	1.3	32	6.2	2.8
TWLC4	3,975	5,386	1 1/2 – 3 1/8	40 – 80	8.8	223	5.1	130	6.4	163	1 1/2 – 2 3/8	37–59	2.0	52	1.7	42	12.6	5.7
TWLC8	7,950	10,773	2 3/8 – 3 7/8	60 – 100	10.4	265	6.2	158	7.7	195	2 – 2 7/8	51–74	2.7	69	2.1	54	22.9	10.4
TWLC15	14,850	20,221	2 9/16 – 4 5/8	65 – 120	12.0	306	7.3	186	8.8	223	2 3/8 - 2 1/2	61–87	3.1	80	2.5	63	37.3	16.9
TWLC30	28,800	39,024	3 1/8 – 6 1/8	80 – 155	15.4	391	9.4	239	10.9	276	3 – 4 1/2	77–116	4.2	106	3.2	82	77.0	35.0

See page 20 for link and reducer information

TORQUE WRENCH PUMP
HYDRAULIC ELECTRIC

The above chart shows the traditional two stage hydraulic pump flow curve where high flow transitions to low flow at around 700 psi. The chart also shows that the Predator Series pump has much higher flow and flow remains smooth throughout the pressure curve. Flow is continually changing based on pressure, giving the maximum horsepower and flow for that pressure. The biggest increase in flow is between 1,000 & 5,000 psi.

For tools such as torque wrenches that normally operate between 1,000 & 5,000 psi, the impact is significant – tools operate twice as fast, increasing productivity or getting the job done in much less time.

Calibratible Gauge
Easy to read 4" diam., 10,000 psi/700 bar glycerin filled

Four Tool Manifold
Enables application of up to four torque wrenches for greater work site productivity

Auto-Cycle Control
One button continuous control of tightening or loosening operation

Manual Control
Option for direct control over the tightening or loosening process

Rugged Pendant
Offers safe & reliable remote operation in an ergonomic design (15 ft. standard, other lengths available)

Roll Bar Design
Offers protection from damage & the ability to lift in horizontal or vertical positions

Sealed Hydraulic Reservoir
Minimizes oil contamination

Modular Pumping Cartridges
Easily replaceable cartridges minimize downtime & service costs

- **Greater Speed**
  Continuously variable performance curve offers greater & more efficient flow throughout the pressure range for greater productivity
- **Quiet Operation**
  Efficient, low noise design yields greater operator comfort
- **Continuous Duty Operation**
  Designed for heavy-duty, extended cycle operation
- **Hydraulic Soft Start**
  Enables more reliable & consistent start-up in marginal power source applications
- **Low Rated Amperage**
  Up to 40% less current draw than other hydraulic pumps
- **Cooler Operation**
  Continuously variable performance curve minimizes wasted energy & the need for external heat exchangers
- **External Pressure Adjustment**
  Easy operator adjustment to achieve corresponding torque values
- **50 Hz Optimized Flow**
  50 Hz units offer optimized flow consistent with 60 Hz units for greater performance
- **CE Compliant**
  Standard on 50 Hz pumps for global applications
- **CSA & UL Compliant**
  Standard on all electric pumps
- **RoHS Compliant**
  Meets global environmental compliance standards
- **1,500 psi/103 Bar Return Side Relief Protection**
  Standard protection for retract side of tool
- **11,600 psi/800 Bar Pump**
  Available as an option
- **Marathon Lifetime Warranty**
  Offers protection against defects in workmanship & material

CAUTION: This Pump should not be used for lifting applications

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Patent Pending

Order No.	Voltage Freq.	Max. Pressure Output	RPM	dBa at Idle & 10,000 psi (700 bar)	Amp Draw @ 10,000 psi (700 bar)	Oil Delivery 700 psi (48 bar)	Oil Delivery 2,500 psi (172 bar)	Oil Delivery 5,000 psi (350 bar)	Oil Delivery 10,000 psi (700 bar)	Reservoir Usable	A Height	B Width	C Length	Product Weight (w/oil)
PCHE60A1BA-4	110-120V 60 Hz	10,000 psi 700 bar	3,450	75	15	620 in.^{3}/min.. 9.9 L/min.	237 in.^{3}/min. 3.8 L/min.	110 in.^{3}/min. 1.8 L/min.	60 in.^{3}/min. 1 L/min.	231 in.^{3} 3.8L	19.88" 505mm	10.13" 257mm	28.00" 711mm	99 lbs. 45kg
PCHE60A1BB-4	110-120V 50 Hz	10,000 psi 700 bar	2,850	75	15	620 in.^{3}/min. 9.9 L/min.	237 in.^{3}/min. 3.8 L/min.	110 in.^{3}/min. 1.8 L/min.	60 in.^{3}/min. 1 L/min.	231 in.^{3} 3.8L	19.88" 505mm	10.13" 257mm	28.00" 711mm	99 lbs. 45kg
PCHE60A1BC-4	220-240V 60 Hz	10,000 psi 700 bar	3,450	75	7.5	620 in.^{3}/min. 9.9 L/min.	237 in.^{3}/min. 3.8 L/min.	110 in.^{3}/min. 1.8 L/min.	60 in.^{3}/min. 1 L/min.	231 in.^{3} 3.8L	19.88" 505mm	10.13" 257mm	28.00" 711mm	99 lbs. 45kg
PCHE60A1BD-4	220-240V 50 Hz	10,000 psi 700 bar	2,850	75	7.5	620 in.^{3}/min. 9.9 L/min.	237 in.^{3}/min. 3.8 L/min.	110 in.^{3}/min. 1.8 L/min.	60 in.^{3}/min. 1 L/min.	231 in.^{3} 3.8L	19.88" 505mm	10.13" 257mm	28.00" 711mm	99 lbs. 45kg

TORQUE WRENCH PUMP
HYDRAULIC AIR

- **Greater Speed**
  Continuously variable performance curve offers greater & more efficient flow throughout the pressure range for greater productivity
- **Continuous Duty Operation**
  Designed for heavy-duty, extended cycle operation
- **Internal Freeze Protection**
  Internal oil path warms exhaust air to avoid freezing while cooling hydraulic oil to achieve optimum oil temperature
- **ATEX II, CAT2, GDcT5 Compliant**
  Enables application in potentially explosive environments
- **FRL Air Preparation**
  Serviceable filter, regulator, lubricator ensures clean, lubricated & consistent air supply
- **External Pressure Adjustment**
  Easy operator adjustment to achieve corresponding torque values
- **1,500 psi/103 Bar Return Side Relief Protection**
  Standard protection for return side of tool
- **11,600 psi/800 Bar Pump**
  Available as an option
- **Marathon Lifetime Warranty**
  Offers protection against defects in workmanship & material

CAUTION: This Pump should not be used for lifting applications

Calibratible Gauge
Easy to read 4" diam., 10,000 psi/700 bar glycerin filled

Muffled Exhaust
Protects against elevated noise to ensure operator comfort

Powerful 4 HP Air Motor
Starts under load & yields up to twice the flow of other air pumps for greater application speed

Pneumatic Remote Control
25 ft. cord standard

Roll Bar Design
Offers protection from damage & the ability to lift in horizontal or vertical positions

Sealed Hydraulic Reservoir
Minimizes oil contamination

Four Tool Manifold
Enables application of up to four torque wrenches for greater worksite productivity

Modular Pumping Cartridges
Easily replaceable pumping cartridges minimize downtime & service costs

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Patent Pending 16

Order No.	Required Air Pressure	Max. Pressure Output	RPM	dBa at Idle & 10,000 psi (700 bar)	Oil Delivery 700 psi (48 bar)	Oil Delivery 2,500 psi (172 bar)	Oil Delivery 5,000 psi (350 bar)	Oil Delivery 10,000 psi (700 bar)	Reservoir Usable	A Height	B Width	C Length	Product Weight (w/oil)
PCHA120A1BA-4	50 cfm @ 80 psi 1,4 m^3/min @ 6 bar	10,000 psi 700 bar	3,000	75	1,240 $in.^3$/min. 19.8 L/min.	475 $in.^3$/min. 7.6 L/min.	220 $in.^3$/min. 3.6 L/min.	120 $in.^3$/min. 2 L/min.	231 $in.^3$ 3.8L	19.88" 505mm	10.13" 257mm	28.00" 711mm	80 lbs. 36.3kg

Socket Size Imperial	3/4" Drive Part No.	1" Drive Part No.	1-1/2" Drive Part No.	2-1/2" Drive Part No.
7/8"	TWSIA088	TWSIB088	-	-
1 1/16"	TWSIA106	TWSIB106	-	-
1-1/4"	TWSIA125	TWSIB125	TWSIC125	-
1-3/8"	TWSIA138	TWSIB138	TWSIC138	-
1-7/16"	TWSIA144	TWSIB144	TWSIC144	-
1-5/8"	TWSIA163	TWSIB163	TWSIC163	-
1-13/16"	TWSIA181	TWSIB181	TWSIC181	-
2"	TWSIA200	TWSIB200	TWSIC200	TWSIF200
2-3/16"	TWSIA219	TWSIB219	TWSIC219	TWSIF219
2-3/8"	TWSIA238	TWSIB238	TWSIC238	TWSIF238
2-9/16"	-	TWSIB256	TWSIC065	TWSIF065
2-3/4"	-	TWSIB275	TWSIC070	TWSIF070
2-15/16"	-	TWSIB294	TWSIC075	TWSIF075
3-1/8"	-	TWSIB313	TWSIC313	TWSIF313
3 3/8"	-	TWSIB338	TWSIC338	TWSIF338
3-1/2"	-	TWSIB350	TWSIC350	TWSIF350
3 3/4"	-	TWSIB375	TWSIC375	TWSIF375
3-7/8"	-	TWSIB388	TWSIC388	TWSIF388
4 1/8"	-	TWSIB413	TWSIC413	TWSIF413
4-1/4"	-	TWSIB425	TWSIC425	TWSIF425
4-5/8"	-	-	TWSIC463	TWSIF463
5"	-	-	-	TWSIF500
5-3/8"	-	-	-	TWSIF538
5-3/4"	-	-	-	TWSIF575
6-1/8"	-	-	-	TWSIF0613

Socket Size Metric	3/4" Drive Part No.	1" Drive Part No.	1-1/2" Drive Part No.	2-1/2" Drive Part No.
22mm	TWSMA022	TWSMB022	-	-
24mm	TWSMA024	TWSMB024	-	-
32mm	TWSMA032	TWSMB032	TWSMC032	-
36mm	TWSMA036	TWSMB036	TWSMC036	-
41mm	TWSMA041	TWSMB041	TWSMC041	-
46mm	TWSMA046	TWSMB046	TWSMC046	-
50mm	TWSMA050	TWSMB050	TWSMC050	TWSMF050
55mm	TWSMA055	TWSMB055	TWSMC055	TWSMF055
60mm	TWSMA060	TWSMB060	TWSMC060	TWSMF060
65mm	-	TWSMB065	TWSMC065	TWSMF065
70mm	-	TWSMB070	TWSMC070	TWSMF070
75mm	-	TWSMB075	TWSMC075	TWSMF075
80mm	-	TWSMB080	TWSMC080	TWSMF080
85mm	-	TWSMB085	TWSMC085	TWSMF085
90mm	-	TWSMB090	TWSMC090	TWSMF090
95mm	-	TWSMB095	TWSMC095	TWSMF095
100mm	-	TWSMB100	TWSMC100	TWSMF0100
110mm	-	TWSMB110	TWSMC110	TWSMF0110
115mm	-	-	TWSMC115	TWSMF0115
120mm	-	-	TWSMC120	TWSMF120
130mm	-	-	-	TWSMF0130
135mm	-	-	-	TWSMF0135
145mm	-	-	-	TWSMF0145
150mm	-	-	-	TWSMF0150
155mm	-	-	-	TWSMF0155

Tool	Link Part No.	Nut A/F inch	Nut A/F mm
TWLC2	TWL2-032	1-1/4"	32
	TWL2-036	1-7/16"	36
	TWL2-041	1-5/8"	41
	TWL2-046	1-13/16"	46
	TWL2-050	2"	50
	TWL2-055	2-3/16"	55
	TWL2-060	2-3/8"	60
TWLC4	TWL4-041	1-5/8"	41
	TWL4-046	1-13/16"	46
	TWL4-050	2"	50
	TWL4-055	2-3/16"	55
	TWL4-060	2-3/8"	60
	TWL4-065	2-9/16"	65
	TWL4-070	2-3/4"	70
	TWL4-075	2-15/16"	75
	TWL4-080	3-1/8"	80
TWLC8	TWL8-060	2-3/8"	60
	TWL8-065	2-9/16"	65
	TWL8-070	2-3/4"	70
	TWL8-075	2-15/16"	75
	TWL8-080	3-1/8"	80
	TWL8-085	3-3/8"	85
	TWL8-090	3-1/2"	90
	TWL8-095	3-3/4"	95
	TWL8-100	3-7/8"	100

Tool	Link Part No.	Nut A/F inch	Nut A/F mm
TWLC15	TWL15-070	2-3/4"	70
	TWL15-075	2-15/16"	75
	TWL15-080	3-1/8"	80
	TWL15-085	3-3/8"	85
	TWL15-090	3-1/2"	90
	TWL15-095	3-3/4"	95
	TWL15-100	3-7/8"	100
	TWL15-105	-	105
	TWL15-425	4-1/4"	-
	TWL15-110	-	110
	TWL15-115	-	115
	TWL15-463	4-5/8"	-
TWLC30	TWL30-080	3-1/8"	80
	TWL30-085	3-3/8"	85
	TWL30-090	3-1/2"	90
	TWL30-095	3-3/4"	95
	TWL30-100	3-7/8"	100
	TWL30-105	-	105
	TWL30-425	4-1/4"	-
	TWL30-110	-	110
	TWL30-115	-	115
	TWL30-463	4-5/8"	-
	TWL30-120	-	120
	TWL30-500	5"	-
	TWL30-130	-	130
	TWL30-135	5-3/8"	135
	TWL30-145	5-3/4"	145
	TWL30-150	-	150
	TWL30-155	6-1/8"	155

TORQUE TO TOO! TORQUE WRENCH SELECTION GUIDE

BOLT DIAMETER				TORQUE		RECOMMENDED MODELS			
ASTM A193 B7 52,500 psi	ASTM A354 BD 60,000 psi	ASTM A193 B7M 40,000 psi	SSO 898 8.8 45,000 psi	Ft. Lbs.	Nm	Square Drive Make-up	Limited Clearance Make-up	Square Drive Break Out	Limited Clearance Break Out
		3/4"	M20	**150**	**200**	TWSD1	TWLC2	TWSD1	TWLC2
3/4"				**180**	**240**	TWSD1	TWLC2	TWSD1	TWLC2
	3/4"	7/8"		**200**	**267**	TWSD1	TWLC2	TWSD1	TWLC2
				250	**334**	TWSD1	TWLC2	TWSD1	TWLC2
7/8"		1"	M24	**300**	**401**	TWSD1	TWLC2	TWSD1	TWLC2
	7/8"			**350**	**468**	TWSD1	TWLC2	TWSD1	TWLC2
			M27	**400**	**534**	TWSD1	TWLC2	TWSD1	TWLC2
1"				**450**	**601**	TWSD1	TWLC2	TWSD1	TWLC2
	1"	1-1/8"		**500**	**668**	TWSD1	TWLC2	TWSD1	TWLC2
			M30	**550**	**735**	TWSD1	TWLC2	TWSD1	TWLC2
1-1/8"				**650**	**868**	TWSD1	TWLC2	TWSD1	TWLC2
	1-1/8"	1-1/4"	M33	**700**	**935**	TWSD1	TWLC2	TWSD3	TWLC2
1-1/4"		1-3/8"		**900**	**1202**	TWSD1	TWLC2	TWSD3	TWLC4
	1-1/4"		M36	**1000**	**1336**	TWSD1	TWLC2	TWSD3	TWLC4
1-3/8"		1-1/2"	M39	**1200**	**1603**	TWSD3	TWLC2	TWSD3	TWLC4
	1-3/8"			**1400**	**1870**	TWSD3	TWLC2	TWSD3	TWLC4
			M42	**1550**	**2070**	TWSD3	TWLC4	TWSD3	TWLC4
1-1/2"		1-5/8"		**1600**	**2137**	TWSD3	TWLC4	TWSD6	TWLC4
	1-1/2"			**1800**	**2404**	TWSD3	TWLC4	TWSD6	TWLC4
1-5/8"		1-3/4"	M45	**2000**	**2672**	TWSD3	TWLC4	TWSD6	TWLC4
	1-5/8"	1-7/8"	M48	**2400**	**3206**	TWSD3	TWLC4	TWSD6	TWLC8
1-3/4"				**2600**	**3473**	TWSD3	TWLC4	TWSD6	TWLC8
	1-3/4"	2"	M52	**3000**	**4007**	TWSD6	TWLC4	TWSD6	TWLC8
1-7/8"				**3200**	**4275**	TWSD6	TWLC4	TWSD11	TWLC8
	1-7/8"		M56	**3700**	**4942**	TWSD6	TWLC4	TWSD11	TWLC8
2"				**4000**	**5343**	TWSD6	TWLC8	TWSD11	TWLC8
	2"	2-1/4"		**4400**	**5878**	TWSD6	TWLC8	TWSD11	TWLC15
2-1/4"		2-1/2"	M64	**5800**	**7748**	TWSD11	TWLC8	TWSD11	TWLC15
	2-1/4"		M68	**6500**	**8683**	TWSD11	TWLC8	TWSD25	TWLC15
2-1/2"		2-3/4"	M72	**8000**	**10686**	TWSD11	TWLC15	TWSD25	TWLC15
	2-1/2"		M76	**9000**	**12022**	TWSD11	TWLC15	TWSD25	TWLC30
2-3/4"		3"	M80	**10500**	**14026**	TWSD25	TWLC15	TWSD25	TWLC30
	2-3/4"			**12000**	**16030**	TWSD25	TWLC15	TWSD25	TWLC30
3"		3-1/4"	M85	**13500**	**18033**	TWSD25	TWLC15	TWSD25	TWLC30
	3"			**15500**	**20705**	TWSD25	TWLC30	*	TWLC30
		3-1/2"	M90	**16500**	**22041**	TWSD25	TWLC30	*	TWLC30
3-1/4"				**17500**	**23377**	TWSD25	TWLC30	*	*
			M95	**19000**	**25380**	TWSD25	TWLC30	*	*
	3-1/4"	3-3/4"		**20000**	**26716**	TWSD25	TWLC30	*	*
3-1/2"			M100	**22000**	**29388**	TWSD25	TWLC30	*	*
	3-1/2"	4"	M105	**25000**	**33395**	*	TWLC30	*	*
3-3/4"				**27000**	**36067**	*	TWLC30	*	*

* For higher torque values please inquire
Torque values are approximate and based upon the bolt threads, nut contact face and nut threads coated with a thread lubricant of co-efficient of friction 0.13

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additional POWER TEAM HYDRAULIC BOLTING PRODUCTS

TWH15	15' (4.6m), 3/8" (9.5mm), ID non-conductive
TWH20	20' (6.1m), 3/8" (9.5mm), ID non-conductive
TWH50	50' (15.2m) , 3/8" (9.5mm), ID non-conductive

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