



HYDRAULIC TENSIONERS

Wind Industry/Specialty

ISO 9001 Registered

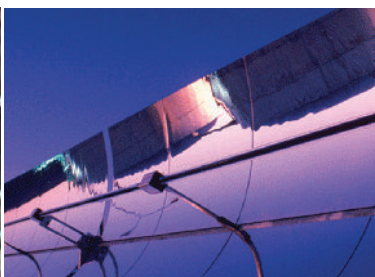
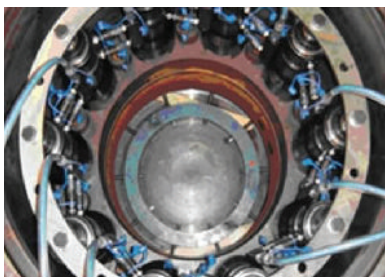
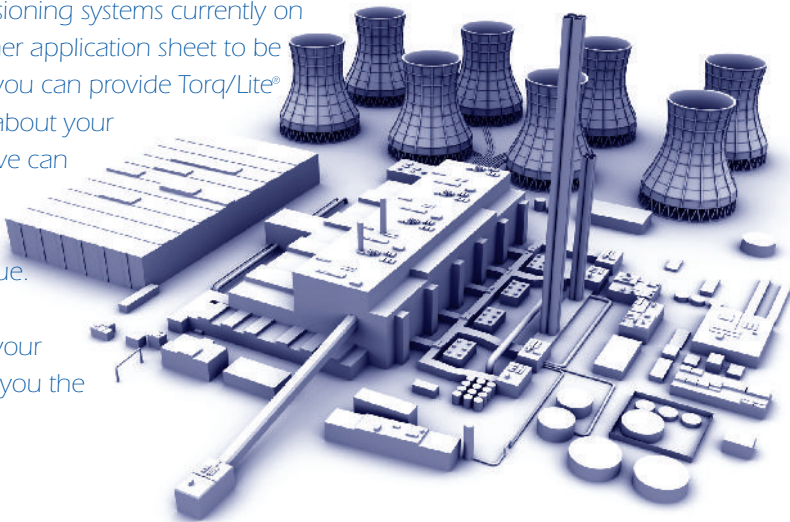
For Immediate Assistance in the U.S. Call: 877-777-4046

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



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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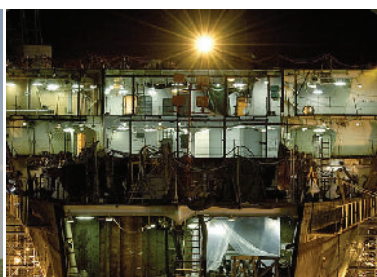
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TLTP 30000-4



- 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						
				Max. Working Presure (MPa)		Output (Liters/Min)				
Insulation Type	Voltage (Phase)	Rated Output	Minutes @ 100V AC	1st Stage	2nd Stage	1st Stage	2nd Stage	Reservoir Capacity	Usable Oil	Weight (kg)
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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