

▼ FTR-Series Foundation Bolt Tensioner



High Precision, Low Maintenance



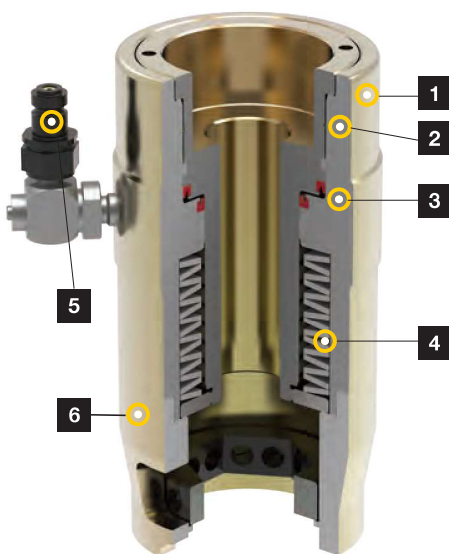
FTR-Series Foundation Bolt Tensioners

FTR-Series Foundation Bolt Tensioners are designed specifically for tensioning wind tower foundation bolts. These tensioners provide the speed and precision required by this critical application.

Potential thread fit problems are eliminated through the use of existing rebar hex nuts as a reaction point.

The FTR-Series includes long-stroke models, which provide greater speed and ease of use by enabling applications to be completed in a single pull.

- **FTR-Series Foundation Bolt Tensioners provide fast, accurate and easy tightening of external or internal ring wind tower foundations**
- **Standard models are available for 75, 150 ksi and metric style Williams, Dyson and Macalloy® bar types**
- **Long-stroke options accelerate process with single-pull tensioning**



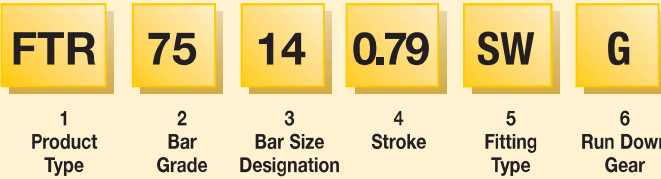
- 1. Corrosion protection:** Zinc coating provides best-in-class corrosion resistance.
- 2. Over-stroke indicator:** Extends life by helping to prevent over-stroking of cylinder.
- 3. Long-life seals:** For maximum durability and extended service life intervals
- 4. Auto-retract piston:** Simplifies use and improves speed of operation.
- 5. Quick-disconnect coupler:** For safe, simple hydraulic connection. *OPTIONAL 360° swivel available for additional hose positioning flexibility.*
- 6. Interchangeable bridge:** For optimal application fit.

▼ FTR-Series Foundation Bolt Tensioner Wrench



Foundation Bolt Tensioners

▼ This is how a FTR-Series Foundation Bolt Tensioner Model Number is Built Up:



1 Product Type

FTR = Foundation Tensioner, Round

2 Bar Grade

75 = 75 ksi
150 = 150 ksi
 (or metric designation)

3 Bar Size Designation

Example: 14 = No. 14 bar

4 Maximum Stroke

Example: **0.79** = 0.79 in. max. stroke

5 Fitting Type

SW = Includes swivel manifold with single male fitting

6 Run Down Gear

G = Includes Run Down Gear (available in select models)

FTR Series



Load Range:

0-308 Tons

Maximum Operating Pressure*:

21,750 psi / 1500 bar

* Max. Pressure varies, see specification table for details.



Tensioner Pumps

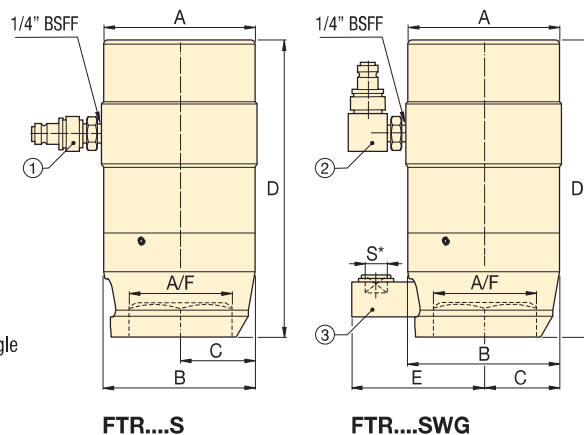
Electric, pneumatic and manual high-pressure tensioning pumps are available for use with Enerpac hydraulic tensioners.



Hoses and Fittings

High-pressure hoses and fittings for use with Enerpac tensioning systems are available.

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- ① Single male fitting
- ② Swivel manifold with single male fitting
- ③ Nut run down gear box

FTR...S

FTR...SWG

▼ SPECIFICATION TABLE

Bar Grade	Bolt Diameter		Bar Size Designation	Model Number	Nut AF (in)	Maximum Pressure (psi)	Hydraulic Pressure Area (in ²)	Load Capacity (tons)	Stroke (in)	Dimensions (in)					Wt. (lbs)	Min. Bolt Protrusion (in)
	(in)	(mm)								A	B	C	D	E		
75 ksi	1.38	35	#10	FTR751010S	2.00	17,400	4.86	42.3	0.39	3.90	3.48	1.74	6.42	-	12.9	7.87
	1.38	35	#10	FTR751025S	2.00	17,400	4.84	42.1	0.98	4.53	4.02	1.65	8.64	-	24.1	9.84
	1.50	38	#11	FTR751110S	2.25	21,750	4.86	52.8	0.39	3.90	3.86	1.50	7.01	-	12.1	8.66
	1.50	38	#11	FTR751125SG	2.25	21,750	4.84	52.7	0.98	4.53	4.02	2.01	8.92	3.78	25.3	10.24
	1.88	48	#14	FTR751420S	2.75	16,965	9.44	80.1	0.79	5.20	5.20	2.60	10.55	-	40.2	12.40
150 ksi	1.44	37	1.25	FTR15012510S	2.25	16,965	8.34	90.8	0.39	4.37	4.33	1.57	7.01	-	18.2	8.66
	1.56	40	1.375	FTR15013810S	2.50	21,750	8.34	90.8	0.39	4.37	4.33	1.50	7.01	-	17.8	8.86
	2.75	70	2.50	FTR15025025S	4.25	21,750	28.27	307.5	1.00	8.44	8.35	3.39	13.68	-	127.8	17.72
10.9	1.42	36	36	FTR1093610SG	2.36	21,750	5.92	64.4	0.39	4.02	3.90	1.57	6.93	3.74	19.0	7.68

Gear box square drive dimension S = 1/2 inch.