



# Auto-Zip™

DZF34MM-10K DOUBLE-ZIP™ Stud Tensioner

## Wind Turbine Tensioners

The **Model DZF34MM-10K** Stud Tensioner is designed to tension foundation bolts on wind turbine towers. The Double-Zip Nut mechanism allows the tensioner to slide down over the foundation bolts without rotating a retaining nut. When the tensioner piston is extended, the Double-ZipNut mechanism automatically engages the foundation bolt and pulls it into tension.

The piston area of the tensioner is 8.68 square inches. This area provides a maximum tension of 86,800 pounds at 10,000 PSI hydraulic pressure. The tensioner has a one inch stroke, therefore, full elongation of the foundation bolts is accomplished with just one pull.

When the bolt is pulled into tension, the nut rotator is turned with a tommy bar to turn the service nut down and lock the bolt in tension.

The tensioner is double-acting, so the piston is returned hydraulically. The Double-Zip Nut mechanism is automatically released when the piston is returned. The **DZF34MM-10K** requires the foundation bolt to extend a minimum of 10-½" above the foundation.



Pump Pressure PSI	Tensioner Load Foot Pounds
1,000	8,680
2,000	17,360
3,000	26,040
4,000	34,720
5,000	43,400
6,000	52,080
7,000	60,760
8,000	69,440
9,000	78,120
10,000	86,800

