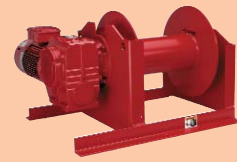


Thern

Product Application



Power Gen



Raising and Lowering Wind Generator Towers



Thern power winches are used on wind farms to raise and lower the towers during maintenance procedures.

Thern 4HW Series winches are used to raise and lower wind powered electric generator towers for maintenance. Groups of towers are strategically positioned to generate electricity from wind energy. Each tower is equipped with a winch. The application uses 11 part line rigging to provide an economical solution. Precise information is required when multiple part lines are used, in order to accurately determine load rating and drum capacity requirements.

When the wind generator tower is in the raised position, it is tied off with a turnbuckle to take the load off the winch.





The wind tower starts positioned on the ground. The winch then reels in the attached cable raising the tower into place.



APPLICATION DETAILS

Lifting or pulling:	Lifting
Line pull required:	55,000 lb total, 5,000 lb at the winch
Line speed required:	25 - 40 fpm adequate
Travel distance of load:	50 ft, 550 drum capacity (11 part line)
Power source:	230/3/60
Installation requirements:	Base mounted
Environment:	Outdoor
Frequency of operation:	Infrequent, periodic maintenance

