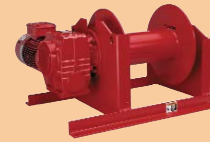


Thern

Product Application

Aerospace



Raising and Lowering Work Platform at Kennedy Space Center



Winches required to raise and lower ET/Orbiter access platforms on Space Shuttle pads 39A and 39B. Winches need to be supplied with grooved drums, limit switches and redundant braking. Hazardous environment with salt air. The platforms

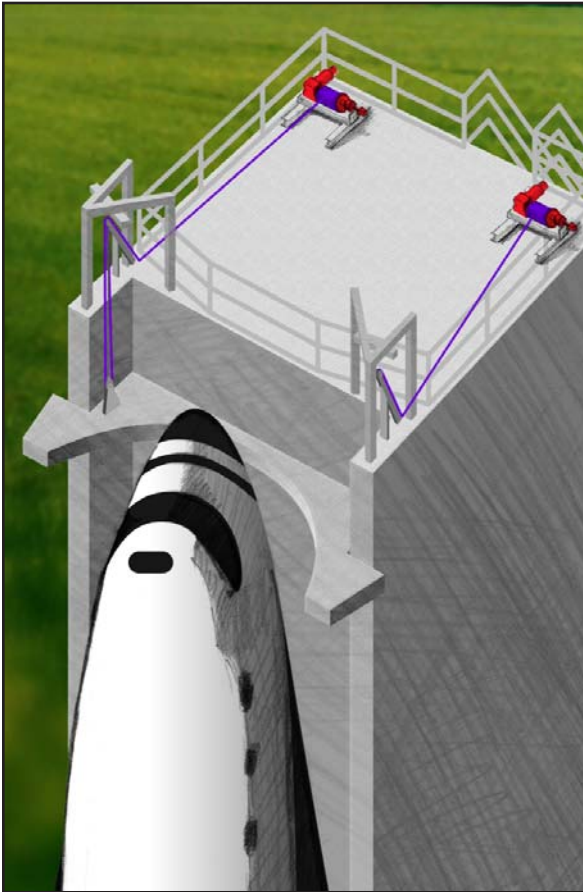


will be locked out when in position prior to supporting personnel. Winches need to be supplied with two speed motor to allow for high speed movement and low speed positioning.

Redundant brake mounted on the outboard end of each winch. Electric motor controls for simultaneous 2 speed operation of both winches provided by Thern. Drums modified with larger spool diameters to maintain adequate D/d ratio, and wider spools for 193 foot single layer capacity.

Redundant brake mounted on the outboard end of each winch. Electric motor controls for simultaneous 2 speed operation of both winches provided by





Two winches positioned on top of the tower and working in tandem raise and lower the access platforms to the orbiter.

Thern. Drums modified with larger spool diameters to maintain adequate D/d ratio, and wider spools for 193 foot single layer capacity.



APPLICATION DETAILS

Lifting or pulling:	Lifting
Line pull required:	1,700 lbs
Line speed required:	30/10 fpm, two speed
Travel distance of load:	67 ft at load, winch line to be two parted
Power source:	460/3/60
Installation requirements:	Base mounted
Environment:	Hazardous
Frequency of operation:	Continuous

