DOUBLE DRUM WINCH
Model: ST 280/D

- Double drum winch with a pull force of 6,160 lbs. and 3,080 lbs. for various usages (tower equipping, tower erection...)
- Larger pull forces / bigger rope drums on request.
- Very compact machine due to the superimposed winches with stable backstay for a quick and safe anchoring
- Optional with inductive slack-rope safety system
- Robust machine designed for highest reliability, easy operation and minimal maintenance
- Optional operation of the machine via cable or radio remote control => good overview, low noise level and safe position for the operator

Technical data of both winches:
- Max. pull force and speed of the lower drum winch:
  - Middle rope layer: 6,160 lbs. with 101 ft./min.
  - Inner rope layer: 7,480 lbs. with 93.6 ft./min.
  - Speed continuously adjustable: 0-213.6 ft./min.
- Max. pull force and speed of the upper drum winch:
  - Middle rope layer: 3,080 lbs. with 125.4 ft./min.
  - Inner rope layer: 3,410 lbs. with 115.3 ft./min.
  - Speed continuously adjustable: 0-135.6 ft./min.
  - With free wheel device to pull out ropes by hand (without engine)
  - Stable rope level-wind device to pull out rope rollers
  - Optional with no contact slack-rope safety system (functions only with steel ropes)=> prevents rope from getting loose and crossed over
  - Large rope drums (=> few rope layers=> rope preserving) with stable pressure roller for fixing the rope
  - Max. rope capacity: 1,490 ft. with rope dia. .38”
  or 1,017 ft. with rope dia. .50”

Control of the machine:
- The rope can be infinitely controlled in/out via a hand lever
- Optional with cable remote control with a 33.9 ft. cable (functions: rope infinitely controlled in/out; emergency stop)
- Optional with radio remote control (additional functions; ignition; engine starting
- Control panel with all instruments to control engine, hydraulic and electrical system
- Both drum winches cannot be operated simultaneously (only possible as special model

Cover:
- Lockable tarpaulin cover (optional with aluminum sheet) protects the diesel engine, the hydraulic and electrical systems=> increases the reliability of the machine and is noise reducing

Hydraulic driving system:
- A complete driving unit consisting of planetary gear, brake and hydraulic motor is integrated in each rope drum=> fully enclosed and therefore requiring minimal maintenance
- 2 automatically activated safety-disc brakes
- High quality control technique enables inching even under maximum load
- Highly effective oil cooling system, electrically activated and controlled via thermostat, designed for extreme operating conditions
- Hydraulic hoses and screw connections with special sealing system for a long service life without leakage
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Engine:
- Water-cooled diesel engine with 24 hp at 2,200 rpm
- Low speed => long service life and low noise level
- 12 V system with high capacity battery

Weight, dimensions and noise level:
- Weight: approx. 2,574 lbs. (without rope)
- Length x width x height: approx. 11.2 ft. x 5.3 ft. x 5.6 ft.
- Low noise level: approx. 74 dB (A)

Frame and support:
- Stable steel frame with anchoring eyes
- Central lifting ring for easy loading by crane
- Back support via mechanical backstay for highest stability and fast and easy anchoring; with integrated eyes for anchoring of ropes
- Front support via stable mechanical parking jack

Standard chassis:
- 1 axle chassis with rigid axle and non-adjustable height towing bar with ball coupling for car application

Optional chassis:
- 1 axle chassis with spring-mounted axle, overrunning brake system, non adjustable height towing bar with ball coupling for car application, parking brake, lighting system, mudguards and registration as high-speed trailer (in Europe up to 49.7 mph)
- Optional: height adjustable towing bar with ball coupling (for car or truck application)

Ropes (Optional):
- ST 280 (lower drum winch):
  - High quality steel hoisting rope dia. .38; breaking load: 22,220 lbs.; ant-twist, galvanized; standard length: 1,017 ft.
- ST 210 (upper drum winch):
  - High quality steel hoisting rope dia. .25; breaking load: 11,000 lbs.; minimal twist, galvanized; standard length: 1,017 lbs.
  - High quality braided synthetic fiber ropes dia. .50; breaking load: 16,500 lbs.; anti-twist; standard length: 1,017 ft.
- Other steel or synthetic fiber ropes on request

Optional equipment:
- Electrical valve version and socket in the control panel => enables the connection of a cable remote control (manual control remains possible as emergency control)
- Cable remote control
- Radio remote control
- No contact slack-rope safety system
- Lockable cover made of thick-walled aluminum sheet
- Large, lockable tool box
- Grounding plate with holding device
- Noise reduction kit for cover
- Biodegradable hydraulic oil
- Gasoline engine with manual or electrical start (price reduction)
- Special equipment or special models (with other pull forces) on request