MORPAC INDUSTRIES

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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Fax: (253) 735-8933



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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 highspeed 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

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