

- Drum winch with a pull force max. 1,55 to (ST 140) or 2 to (ST 180) for various usages (mast equipping, tower erection, antenna construction ...)
- Optional also for lifting passenger
- Other pull forces/ bigger rope drums on request
- Stable backstay for fast and safe anchoring
- Optional with inductive slack-rope safety system
- Robust machine designed for highest reliability, simple operation and minimal maintenance
- Optional operation of the machine via cable or radio remote control from a safe distance => good overview, low noise level and safe position for the operator
- High quality control technique enables inching even under maximum load



Drum winch technical data:

- Max. pull force and speed (e.g. with 300 m rope Ø 7 mm):
 - Type: ST 140
 - Middle rope layer: 1.400 daN with 40 m/min
 - Inner rope layer: 1.550 daN with 37 m/min
 - Speed continuously adjustable: 0 - 43 m/min
 - Type: ST 180
 - Middle rope layer: 1.800 daN with 30 m/min
 - Inner rope layer: 2.000 daN with 27 m/min
 - Speed continuously adjustable: 0 - 35 m/min
- With free wheel device to pull out ropes by hand (without engine)
- Stable rope guiding device with hardened 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 drum (=> few rope layers => rope preserving) with stable pressure rollers for fixing the rope
- Max. rope capacity: $K=44816$ => e.g. 900 m with rope Ø 7 mm or 300 m with rope Ø 12 mm

Control of the machine:

- The rope can be indefinitely controlled in/out via a hand lever
- Optional with cable remote control with a 10 m cable (functions: rope indefinitely 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 systems

Cover:

- Lockable tarpaulin cover (optional with aluminium 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 => fully enclosed and therefore requiring minimal maintenance
- With 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

Engine:

- Water-cooled diesel engine with 14,7 kW (20 HP) at 1.950 rpm
- Low speed => long service life and low noise level
- 12 V system with high capacity battery for safe starting also at cold temperatures

Weight, dimensions and noise level:

- Weight: approx. 840 kg (without rope)
- Length x width x height.: approx. 3.400 x 1.560 x 1.530 mm
- Low noise level: approx. 72 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 a non-adjustable height towing bar with ball coupling for car application
- Optional: lighting system, mudguards, height adjustable towing bar with change coupling (for car or truck applications)

Optional chassis:

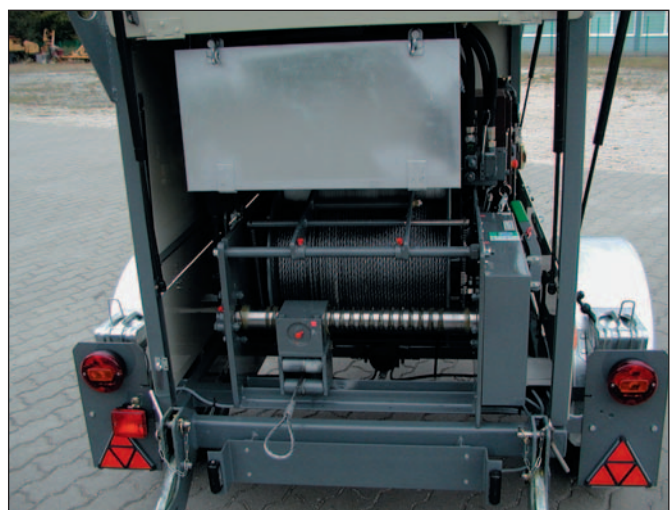
- 1 axle chassis with spring mounted axle, overrunning brake system, non-adjustable height towing bar with ball coupling for car application, parking brake, lighting system, mudguards and registration as high-speed trailer (in Germany up to 80 km/h)
Optional: height adjustable towing bar with change coupling (for car or truck applications)

Ropes (Optional):

- ST 140:
 - High quality steel hoisting rope \varnothing 7 mm; breaking load: 5.000 daN; minimal twist, galvanized; standard length: 300 m
 - High quality, tightly braided synthetic fibre ropes \varnothing 12 mm; breaking load 7.500 daN; anti-twist; standard length: 300 m
- ST 180:
 - High quality steel hoisting rope \varnothing 8 mm; breaking load: 6.500 daN; minimal twist, galvanized; standard length: 300 m
 - High quality braided synthetic fibre ropes \varnothing 12 mm; breaking load: 7.500 daN; anti twist; standard length: 300 m
- Other steel or synthetic fibre ropes on request

Optional equipment:

- Tyres for high ground clearance and low ground pressure
- Electrical valve and socket in the control panel
=> enables the connection of a cable/radio 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 aluminium
- Large, lockable tool box
- Spare wheel with lockable holding device (only with aluminium cover)
- Grounding plate with holding device
- Biodegradable hydraulic oil
- Gasoline engine with hand or electrostart (price reduction)
- Special equipment or special models (for lifting passengers or with different pull forces) on request



Modifications and errors excepted. Illustrations show in part optional equipment. Technical data varied according to model. Machine performance is calculated at sea level at 20°C.