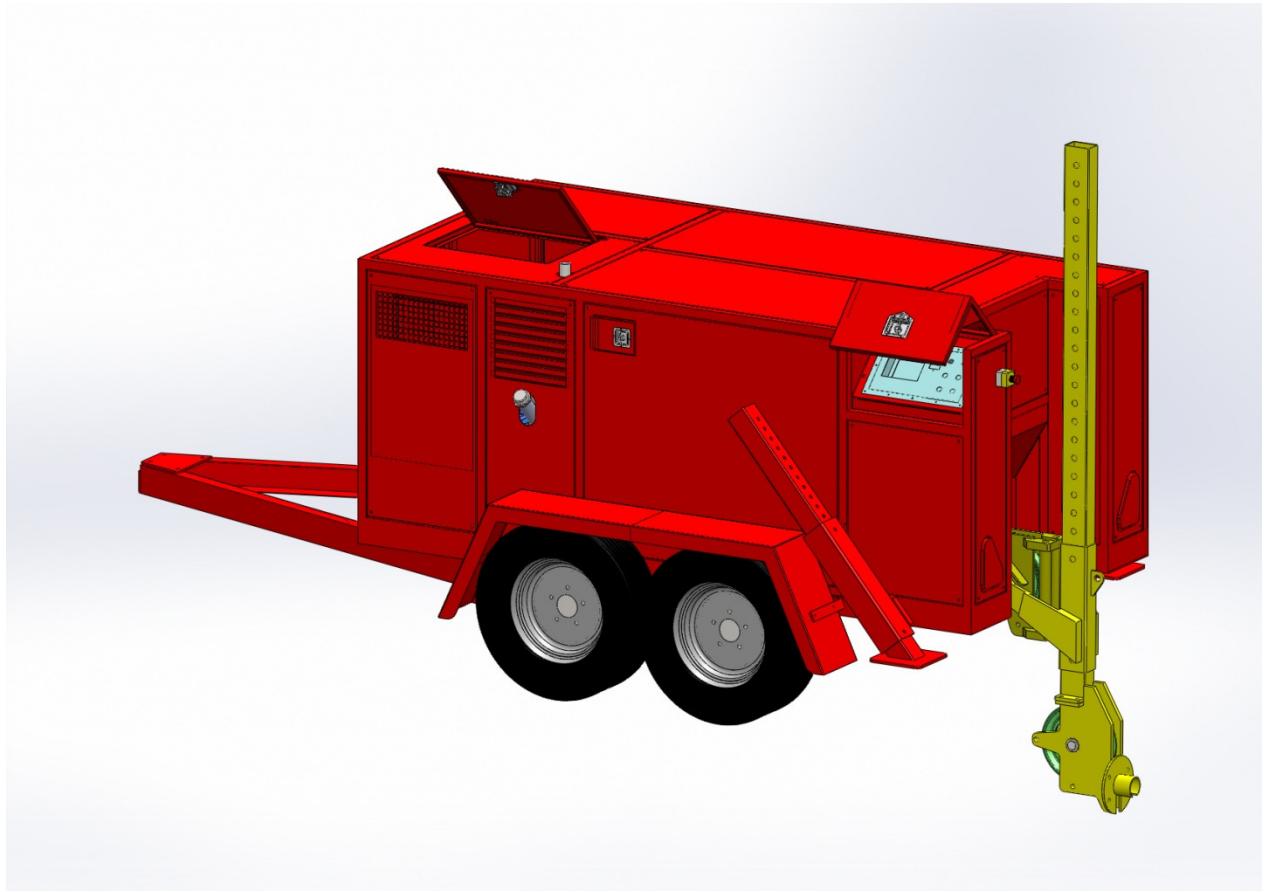


TCW 10 Tonne Twin Capstan Winch Technical Specifications



Basic Chassis Frame: Manufactured from high quality steel fully welded, mainly box section for added strength and heavy duty channel section drawbar assembly. Rear adjustable drop down rear leg supports to stabilise whilst winching are standard. **(Please see the options list for available Drop Down Boom Kits and bracing options).**

Superstructure: Manufactured from mainly square hollow section framework with steel panel insets. Hinged access panels allow for day-to-day service checking and panels are easily removed to provide access for servicing or repair. Panels around the engine area are fully sound proofed to reduce external noise.

Running Gear: The winch is a “Tandem Axle” configuration utilising “Knott” axles and overrun brakes, a “Knott” tow- head assembly complete with hand brake and jockey wheel. Full highway LED lighting system. Wheels and tyres are to full specification for the winch to operate at 3500KG gross weight.

Engine: Lombardini LDW 1404 FOCS Four Cylinder Diesel Engine, water- cooled with key start and shutdown protection. The engine is rated at 26.0Kw / 35.2Hp at 3200rpm and produces 84.0Nm of torque at 2000rpm. The engine is transverse mounted and fitted with a “Hospital” type exhaust silencer to give quiet operation. A large capacity fuel tank is provided which can be reached easily from the side of the winch.

Winch System: Two hydraulic motors power two individual capstan drums, the capstans are mechanically linked to provide perfect speed control between the two motors, the capstans are precision grooved to carry the rope without damage and maintain a constant torque. Rope is passed back to the storage drum, which is hydraulically driven, and with a precision automatic layering device protecting the rope from damage.

Hydraulic System: The hydraulic pump is manufactured by Danfoss and is of the highest quality and is a variable displacement and load sensing unit. The control system is also Danfoss and is an electrically controlled proportional valve system. This allows for precise control of speed and tonnage. The motor assemblies are manufactured by SAI with Bonfiglioli reduction gearboxes. There is also electrically driven oil cooler, which is thermostatically controlled. The large capacity hydraulic oil tank and its filter system will give trouble free operation. All of these components have been chosen for the proven reliability and worldwide availability of service and support.

Operator Controls: The controls are mounted to the rear of the winch to allow an excellent viewing angle of exact winch operations. The main control will be a proportion handle for “Winch In” and “Winch Out” this will give precise speed control of the winch rope. There will be a tonnage control to be able to preset the maximum required tonnage, when this tonnage is reach the winch will hold that and not go above the preset limit. There is also an actual tonnage dial gauge showing the load being pulled at the time. There is also a number of emergency stop switches mounted at the control panel and around the outside of the winch. **(Please see the options list for electronic touch screen control and recording).**

Rope Capacities: The winch has been designed to carry approx 900 Metres of 16 mm Diameter IWRC wire rope; this offers a breaking load of 16.50 Tonnes. If longer lengths are required, the winch can be fitted with approx 1000 Mtrs of 14 mm Diameter IWRC wire rope this offers a lower breaking load of 12.60 Tonnes. (This option should be considered with caution).

Winching Speeds: Line pull speeds: No Load pay out approx 50 Mtrs / Min.
Full Load winch in approx 10-12 Mtrs / Min.

Options:

1. Drop Leg Boom Kits
2. Horizontal Boom Brace Kits:



3. Different Rope Options.
4. Touch Screen Control with Job Number, Operator ID, Distance and Load Recording together with USB Data Stick Download.



Service and Support:

Full service and support can be provided either directly or via our appointed agents. Our winches are built to the highest standards using the best possible components available.

Our winches should give many years of good service provided regular servicing is carried out at recommended intervals. Technical advice on operating winches is available.