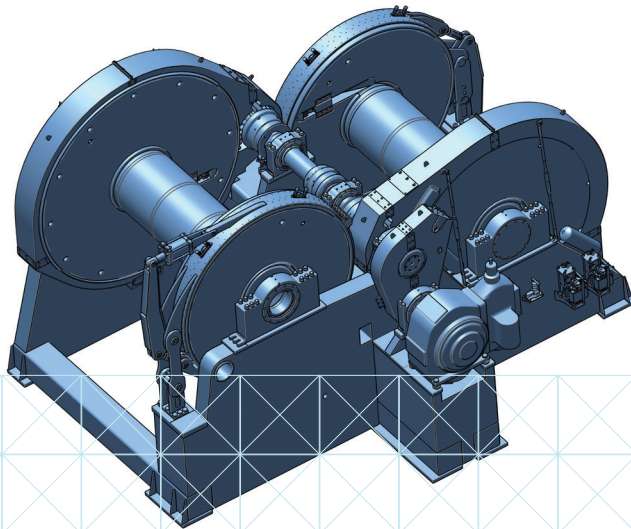


TOWING WINCH TYPE BSL250/SL250



KONGSBERG



TOWING WINCH TYPE BSL250/SL250

for UT 722CD

The winch are designed as a two drum configured above lined waterfall winch. The towing drum at upper end aft, and a towing drum lower end fwd. The winch and drive system are designed so one drum can be operated simultaneously at 100% load.

Towing drums:

Drum core diameter: 1000 mm
Drum length: 1800 mm
Drum flange diameter: 2650 mm
Wire capacity 1800 m of 70 mm dia wire

Basic design calculations criteria for the drum is based on using steel wire. Wire fastening for wire from 58 mm dia. to 98 mm dia. in side flanges. Brake and clutch control: manual / remote controlled, manual hand pump for emergency use. Band brakes with sensor for measuring static wire tension. All moveable mechanical components have grease nipples. Drums are declutchable.

Winch emergency release:

The winch has a Emergency Release

Sequence (ERS) system to disengage the drums from the drive units within 10 seconds. The sequence is made to let the drum brake hold the winch load while the coupling for the driving unit(s) is disconnecting. The brake will be released when the coupling is out.

Gear transmissions:

Gear cover: open type.
Gear ratio hydraulic motors / drum 1: 12 (preliminary)
Central greasing system for the pinion / gear wheels on main drum.

Driving units:

The drums are driven by:
One driving unit, consisting of:
One hydraulic motor type CX132 with control valve type E17-3sp / R8
Lowering limit valves, shock valves, tension control valves, pressure transducers and solenoid valves.
Manual control of motorcells (speed step 1, 2 and 3) from the remote control system on bridge.
Manual control of the dynamic tension/braking from the remote control system on bridge.

Duty on Towing drums 1st layer

1st. Step

1st 250 tonnes at	0 - 10 m/min
Mid 146 tonnes at	0 - 17 m/min
Outer 103 tonnes at	0 - 25 m/min

2nd. Step

1st 167 tonnes at	0 - 15 m/min
Mid 97 tonnes at	0 - 26 m/min
Outer 69 tonnes at	0 - 37 m/min

3rd. Step

1st 83 tonnes at	0 - 31 m/min
Mid 49 tonnes at	0 - 53 m/min
Outer 34 tonnes at	0 - 76 m/min

Lowering (One Chamber)

1st	0 - 34 m/min
Mid	0 - 59 m/min
Outer	0 - 83 m/min

Dynamic braking:

1st 43 to 313 tonnes at	0 - 31 m/min
Mid 25 to 182 tonnes at	0 - 53 m/min
Outer 18 to 129 tonnes at	0 - 75 m/min

Static brake:

1st	360 tonnes
Mid	210 tonnes
Outer	148 tonnes

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