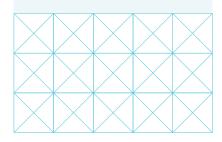


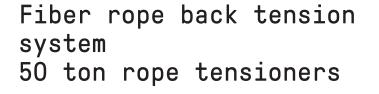


DECK MACHINERY

## ADVANTAGES

- Timesaving and environment friendly mobilisation of fiber ropes at the offshore base and in open sea
- No need for re-spooling between drums to achieve tight spooling
- Reduced risk for damaging the rope due to penetration between drum layers
- Built for easy connection to existing hydraulic circuit
- The system is suitable for installation on sailing ships





The system provides adjustable back tension when spooling rope into a working drum from a storage reel onshore, from another vessel or from onboard the same vessel.

## Fiber rope back tension system consists of:

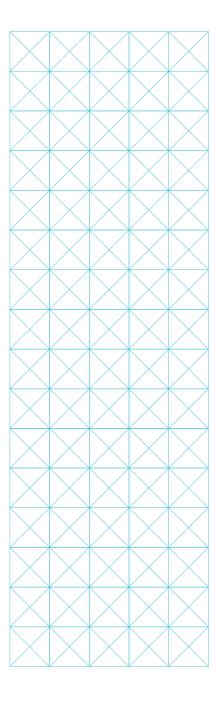
- Two LP CX1270 motors winstalled below main deck
- Two gear boxes installed in line with main deck
- Two rubber coated V-shaped sheaves of 1500 mm bottom diameter for back tension generation
- One rubber coated V-shaped sheave of 1500 mm bottom diameter for idler spooling
- Three steel covers for protection of gear boxes when sheaves are demobilised
- Lifting sling with guide pins for handling and installation of sheaves and covers
- · Portable remote control unit for tensionand speed control
- Tension reading for back tension systemon bridge



Island Vanguard is the first vessel with the equipment installed

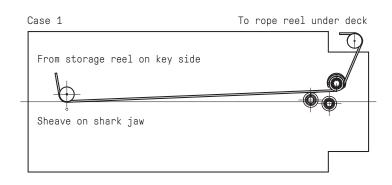


Mounting of rope tensioners at Island Vanguard

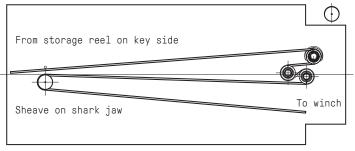


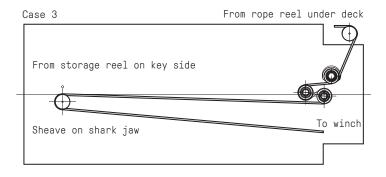
## TECHNICAL SPECIFICATIONS

• Pitch diameter with 203 mm fiber rope	1900 mm
<ul> <li>Max fiber rope dimension</li> </ul>	ø260 mm
<ul> <li>Max speed on fiber rope</li> </ul>	30 m/min.
<ul> <li>Max back tension force</li> </ul>	50 tons
• Existing cooling system	
• Heat transfer rate	252 kW
- at inlet oil temp.	65oC
- at oil flow	44.6 m3/h
	(740 l/min.)
• Oil type	ISOVG 100
• Pressure drop, oil side	0.70 bar
• Max oil inlet pressure	6 bar
• Cooling medium seawater	
• Flow rate SW	29.4 m3/h
	(490 l/min.)
<ul> <li>Pressure drop SW</li> </ul>	0.09 bar
• Inlet temp. seawater	32oC
• Max water inlet pressure	6 bar
• Weight dry	16200 kg



## Case 2





Kongsberg Maritime P.O.Box 483, NO-3601 Kongsberg, Norway Switchboard: +47 815 73 700 Global support 24/7: +47 33 03 24 07 E-mail sales: km.sales@km.kongsberg.com E-mail support: km.support@km.kongsberg.com