GEO CELTIC

Skipsteknisk ST-327 — Cable Lay & Repair Conversion

Ex-seismic 24 m beam hull → carousel-equipped cable vessel

A 24 m beam hull taking a 20.5 m carousel below deck — ≈ 3,500 t of fibre-optic cable, or ≈ 2,500 t of power cable — with 15,480 kW of installed power and a guide price of USD 25 m. The complete fibre-optic mission spread is supplied new.

101 m	15,480 kW	3,500 t	39 days	69
LENGTH OVERALL	INSTALLED POWER	CABLE CAPACITY	ENDURANCE	PERSONS ON BOARD

PRINCIPAL PARTICULARS

Design	**Skipsteknisk ST-327**
Built	**2007 · Bergen Group, Norway**
Length overall	**101 m**
Beam, hull / extreme	**24.0 / 28.0 m**
Max draught	**7.5 m**
Gross tonnage	**12,110**
Deadweight	**≈ 5,480 t**
Fresh water production	**90 m³/day**

POWER & PROPULSION

Main generators	**4 × Rolls-Royce B32:40 @ 3,870 kW**
Total installed power	**≈ 15,480 kW**
Propulsion	**2 × 4,200 kW, low-noise CPP**
Bow thruster	**1,200 kW fixed pitch**
Retractable azimuth	**1,500 kW — new**
Stern thruster	**1,200 kW — new**
Energy storage	**1,500 kWh ESS — new**
Electrical system	**690 / 440 / 220 V**

CABLE CAPACITY — CONVERTED

Carousel, below deck	**≈ 3,500 t FO · Ø 20.5 m**
Power cable capacity	**≈ 2,500 t**
FOC per load-out	**≈ 4,700 – 5,800 route-km**
Stowage form	**Below-deck carousel**

PERFORMANCE, ACCOMMODATION & CLASS

Max / cruising speed	**15 / 13 kn**
Endurance	**42 days at sea**
Fuel / fresh water	**2,420 / 258 m³**
Continuous bollard pull	**125 t**
Dynamic positioning	**DP2 — retrofit**
Persons on board	**69 single cabins**
Classification	**DNV · Ice(C) · DK(+)**

HULL OF RECORD — GEO CELTIC (IMO 9376995)

DNV ✠1A1 Clean COMF(C-3, V-3) DK(+) E0 HELDK(S, H) Ice(C) RP SF TMON. Built 2007, Bergen Group, Norway; keel laid 2006. No previous names. Deadweight shown is the sister-ship figure pending owner confirmation.

AT A GLANCE

- Cable lay and repair with post-lay burial capability
- ≈ 3,500 t fibre-optic or ≈ 2,500 t power cable, ≈ 4,700–5,800 route-km
- 125 t bollard pull — 1.25× margin on the MD3-XT plough
- Complete fibre-optic mission spread supplied new

Carousel capacity and an all-new mission spread

Beam decides carousel size, and 24.0 m gives a 20.5 m carousel below deck: ≈ 3,500 t of fibre-optic cable, or ≈ 2,500 t of power cable on the same machine. Every item of the fibre-optic mission spread is new.

24 m beam takes a 20.5 m carousel

- 20.5 m outside-diameter carousel, carried below deck
- ≈ 3,500 t of fibre-optic cable, or ≈ 2,500 t of power cable
- 69 single cabins and 42 days at sea

An all-new mission spread

- Burial ROV, DOHB, stern sheaves and work-class ROV — all new
- MD3-XT plough with A-frame LARS, newly fitted
- Nothing carried over from the seismic mission spread

15,480 kW installed

- 15,480 kW on four Rolls-Royce B32:40 generators
- Substantial power surplus once the seismic plant is removed
- 90 m³/day fresh water production offsets modest tankage

ALL-NEW FO CABLE HANDLING SPREAD: BURIAL ROV · DOHB · STERN SHEAVES · PLOUGH · WORK-CLASS ROV

CABLE HANDLING & DECK — ALL NEW	
Carousel, below deck	Ø 20.5 m · 3,500 t FO
Lay & burial ROV	SMD QT600
Burial depth	3.0 m · 2,500 msw · 450 kW
Drum cable engine	SMD, Ø 4.0 m, 40 t
DOHB	4 wheel-pair, 4 t
Stern sheaves	2 × Ø 3.5 m
Quadrant	1 × 40 t SWL
Plough	SMD MD3-XT
Plough trench depth	3.3 m · 80 te tow load
Plough LARS	A-frame 60 – 100 t SWL
Work-class ROV	2,000 m rated, with LARS

THE CONVERSION

The seismic spread comes out, releasing around 900 t of lightweight. The carousel goes in below deck in place of the streamer hold, with the compressor, instrument and bird repair spaces reworked as cable machinery, test and termination, and jointing. The thruster package is the largest single item of new work.

RETAINED Hull, four-generator plant, accommodation for 69, ballast and fresh water systems.

NEW Carousel, cable machinery and spread, plough spread, ROV and LARS, stern thruster, retractable azimuth, DP2, ESS. ≈ 1,260 t.

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