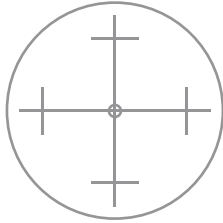


Cable/Pipe Route Surveys

C/S Nordkabel



Survey tasks

- Offshore
- Inshore
- Coastal areas
- Site surveys
- Route surveys
- ROV operation

Other tasks

- Cable laying

Parker Maritime AS has in co-operation with Seaworks AS equipped the C/S Nordkabel with a multi beam echo sounder for bathymetric surveys of depths down to 1000 meters.



Multipurpose vessel

C/S Nordkabel is built for cable laying operations. The vessel has been equipped with Kongsberg EM1002 multi beam echo-sounder and a Kongsberg HPR410 for sub-sea positioning. The vessel has the capacity to take on total marine cable projects. This includes cable corridor survey to determine the best cable route, calculation of required cable length and production of charts. DGPS and HPR are used for positioning and monitoring during cable laying operations. Smaller ROVs can also be operated from the vessel.

Accurate positioning

C/S Nordkabel is equipped with DGPS receiver for surface navigation, and Kongsberg HPR410 for sub-sea positioning. The vessel has a RobPos dynamic positioning system and Olex electronic chart display (ECDIS).

Swath surveying

The hull mounted Kongsberg EM1002 covers a swath up to 7 times water depth down to 1000 meters.

Operating at 95 kHz with 111 beams gives a resolution of 5cm and an accuracy of 10cm.

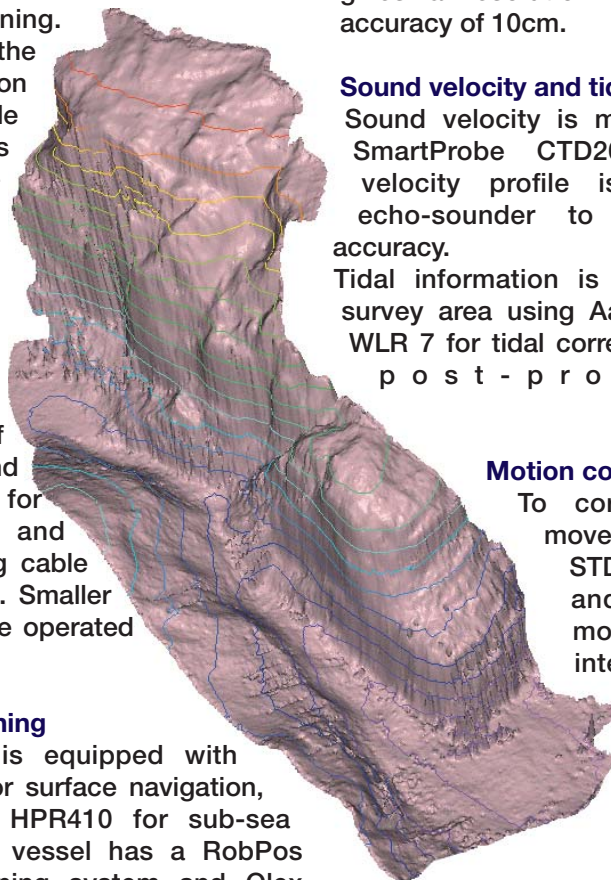
Sound velocity and tidal data

Sound velocity is measured using a SmartProbe CTD204. The sound velocity profile is fed into the echo-sounder to gain maximum accuracy.

Tidal information is collected in the survey area using Aanderaa WLS 5 / WLR 7 for tidal corrections during the post-processing.

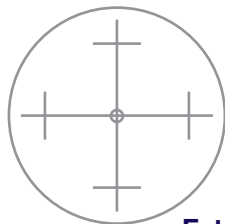
Motion corrections

To correct for vessel movements, a Anshutz STD 20 gyrocompass and an MRU5 motions sensor are interfaced to both echo-sounder and DGPS.



Cable/Pipe Route Surveys

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Extended operations

For operations in connection with shallow landfall areas etc., C/S Nordkabel can be mobilized with our 24' survey launch, S/L Bintang (see separate sheet) which is equipped with Kongsberg EM3000 multi beam echo-sounder. Processing of data acquired from C/S Nordkabel as well as the survey launch will be carried out on board C/S Nordkabel.

Facilities

The vessel is suitable for 24h operations and has accommodation for 13-15 people.

Post-processing

Final processing is carried out onshore at the Stavanger office using Neptune software and CFLOOR for digital terrain modeling.

Digital data can be delivered in various formats such as MicroStation, AutoCAD and SOSI.



VESSEL SPECIFICATIONS

Call sign LGRY
Build 1969, rebuild 1989

Physical measurements

Length 44 m
Width 8 m
Draught 4.3 m (transducer)
Load capacity 210 ton
Fuel 30 ton
Freshwater 30 ton
Main engine Wichmann 3 ACA 650 hp
Speed 11 knots

Equipment

Deck crane 27 ton meter
Forward deck crane 8 ton meter
Cable machinery, tractive power 10 ton / barrel diameter 3 m
Bow wheel, diameter 3 m
Dynamometer for cable stretch measurement 0-10 ton
Equipment for loading of work boat
Work boat with load capacity 5 ton, 110 hp

Cable equipment room

Barges for cable laying in rivers and lakes (max. load 20 ton)

TECHNICAL INSTRUMENTATIONS

Navigation Leica DGPS
Nav. system NaviPac / Olex mbes
Sub sea Kongsberg HPR 410
DP Robertson RobPos SDP 600
Radar Decca 1226 and JRC JMA 5310 S
Autopilot Robertson AP 9 MK II
Gyro Anshutz Standard 20 w/ GPS aiding
ECDIS Olex using chartworld ENC
Echo-sounders Kongsberg EM1002, multi beam
Motion sensor MRU-5
CTD SmartProbe 200
Workstation Hewlett Packard

Communication

VHF / MF / UHF

Vessel owned by:



Seaworks AS
Box 944
N-9489 Harstad, NORWAY



Parker Maritime AS
Heiamyra 1
4033 Stavanger
NORWAY

telephone: +47 51 70 85 00
telefax: +47 51 70 85 01
email: post@parkermaritime.no
www.parkermaritime.no

Contact:
Rolf A. Ueland

mob. +47 91 59 56 36

