

NORTHERN FRANKLIN



- Geophysical seabed mapping
- Geotechnical sampling
- ROV Operations
- Environmental assignments

NORTHERN FRANKLIN



TYPE OF VESSEL

DP1 Survey & ROV Vessel

SPECIFICATIONS

Flag:	Danish
Class:	1A Offshore service vessel, DYNPOS (AUT) EO SPS or: Research / Survey Vessel
Call sign:	OZIH2
Home port:	Aarhus, Denmark

BUILDER & DIMENSIONS

Built:	North Queensland Engineers & Agents Pty. Ltd. in 1985
Gross tonnage:	1178 tons
Net tonnage:	353 tons
Dead weight:	1.218 tons
LOA:	55.61 m
Breadth:	11.99 m
Draft:	4.20 m
Req. water depth w. Azim:	6.00m
Service Speed:	12 kts
Max speed:	13.5 kts

PROPULSION:

Main Engines:	Single Wärtsilä 12V22MD, 1590 kW at 900 rpm Single Lips BV CPP propeller
Bow thruster:	Retractable azimuth 295 kW, 5.3 ton
Stern thruster:	one tunnel thruster 295Kw, 4.5 ton
Station holding capacity:	DP class 1

POWER SUPPLY:

Shaft generator	800kVA
Diesel generators:	2x375 kVA Volvo Penta D12 415V 50 Hz 3 phase 240 V 50 Hz, UPS available

DECK EQUIPMENT

A-Frames Stern:	8mt
Over-the-side:	2.8 mt (wire depending)
Deck crane SWL:	11m, 2.7 mt
Free Deck Space:	approx..85m2, 3x20' container

NAVIGATION/COMMUNICATION EQUIPMENT

Radar:	Furuno 2117, Transas Naviradar 4000
ECDIS:	Transas NS 4100
GMDSS A3	
V-Sat (Internet, phone)	
Sat TV	
Obstacle Avoidance	
Sonar:	Furuno
Winches:	18 mm rotation free wire 900m, SWL 6 mt 10.0 mm signal FO wire 2100 m

WORK SPACES:

Wet lab
Chemistry lab
Post-processing room
Separate client office
General purpose lab
Survey Room

ACCOMMODATION:

12 single cabins, 18 double cabins
Mess room, Day Room, Dressing
Room, Two Laundries, Hospital,
Gymnasium

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NAVIGATION AND POSITIONING

Primary Positioning System: POS MV 320 with C-Nav C2,
IALA DGPS corrections and RTK
option

Secondary Positioning System: Crescent Hemisphere with
IALA DGPS corrections

Optional Positioning System: C-Nav 3050 with C1 correction
C-Nav 3050 with C2 correction

Gyro/Motion: Applanix POS MV 320

Underwater positioning USBL: iXSEA GAPS III

Survey Navigation System: QPS QINSy

Sound Velocity Profiler: Valeport MiniSVS,
Valeport Midas SVX2

Hull mounted Sound

Velocity Sensor: Valeport MiniSVS

BATHYMETRY AND GEOPHYSICS:

Multibeam Echo Sounder:

Kongsberg EM 2040D

Kongsberg EM 710

Side Scan Sonar: Edgetech 4200MP,
300/600 kHz or 300/900 kHz
Edgetech 2000-CSS,
300/600 kHz or 300/900 kHz

Sub-bottom Profiler: Innomar 2000 SES – 100 medium
Edgetech DW 106 1-10 kHz
Edgetech 512i 0.5-12 kHz
Sparker/Boomer

High resolution seismic sparkers and streamers for 2D and 3D operations

Geo-Sense Multi channel

Stremers 48 channels

Geo Source Sparker Systems

Magnetometer survey spread:

Towfish with TGV frame

2xMacArtney FOCUS 2

ROTV with TVG frame

2xScanFish Katria with 8 Geometrics
G-882

OFF-LINE SOFTWARE:

Chesapeake SonarWiz

SMT Kingdom

Oasis Montaj incl OXU Marine

QPS/IVS Processing Suite

CARIS HIPS & SIPS

POSPac MMS

TerraPos

iXSEA DelphINS

Autodesk AutoCAD Map 3D

Arc GIS

Wish software Autochart

Visual Soft Visual Works

EIVA NaviSuite

SEAFLOOR SAMPLING AND UNDERWATER INSPECTION:

ROV: Sub-Atalantic Mohican

ROTV: MacArtney FOCUS 2

Vibrocoring: 6/3 m system

Corers: Piston/gravity corer 6/3 m

Samplers: Boxcorer/grabsampler

PCPT: Neptune 5000

Drop Camera: STR Seaspyder Drop Camera

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