

VBNMS

Specification
sheet

Cable lay vessel /
Stemat Spirit



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Specifications:

Type of vessel:	DP2 special serviceworkboat
Class:	Bureau Veritas + Hull + Mach + AUT UMS +Dynapos AM/AT R Special Service
Flag:	The Netherlands The Vessel complies with SOLAS
Beaching capabiltiy	

Principle Dimension and capability

Length over all:	90.0 m
Moulded depth:	6.5 m
Moulded Width:	28.0 m
Maximum draft:	4.70 m (7.00 m bow thrusters down)
Minimum draft (Approx):	1.90 m (4.20 m bow azimuth down) [minimum draft including standard cable lay equipment on board]
Gross tonnage:	5,551 GT
Deck strength:	15 ton / m ²
Speed (Max approx.):	9 knots
Fuel oil capacity:	Up to 1,400 m ³
Fresh water maker:	2 x 12m ³
Fresh water tank capacity:	~300 m ³
Ballast tank capacity:	~2,000 m ³
Ballast pump discharge rate:	2 x 400 m ³ /hr
Sewage treatment plant:	1

Dynamic positioning system

Regulatory approved:	BV Class AM/AT R
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Accomodation

Single and double cabins:	4 / 28
Hospital:	1
Total number of bunks:	60
Client office:	2
Conference room:	1
Safety equipment:	According to Class / NSI and SOLAS

Power and Propulsion

Main engines:	2x Caterpillar 3512HD
Stern thrusters:	2x HRP 6111
azimuting thrusters:	1140 kW"
Bow thrusters:	"2x Caterpillar 3512B 2 x HRP 6111 retractable Azimuth 1118 kW 1 x Electric driven tunnel thruster 650 kW
Auxiliary / Generators:	3 x 850 kW Parallel running / PM system
Emergency / Harbour generator:	1 x 200 kW

Cranes & lifting appliances

6 Point Mooring System:	6 nos 60 ton pull / 100 ton hold, full CT
Drum Capacity:	1,000 m Ø 48 mm anchor wire
Anchors:	6 nos 7 ton SSHP, 5 ton stevpris
Optional:	pull winch for plough operations 125 ton sust./180 ton mx.
Hydraulic deck crane:	18 ton at 14 m radius
Main Crane:	Offshore Knuckle Boom Crane Active Heave Compensation Boom length 34 m Lifting capacity 140 ton

Navigation & Communication

GMDSS:	As per flag state / Class Unlimited navigation
Satelite communications:	Seatel VSAT 4006activities

Turntable

Loading capacity:	4,400 ton
Outer diameter:	24 m
Inner core diameter:	6.6 m (adjustable to meet cable specifications)
Height of turntable:	5.5 (Extendable to max 7 m)
Surface area ring:	420 m ²
Cable speed range:	0 – 1000 m / hr (loading and laying)
Max product diameter:	450 mm
Max product weight:	150 kg / m

Cable lay equipment

Cable tensioners:	2 x 5 or 10 ton (project specific)
Cable splice area:	Deck space is available for jointing activities