



VESSELS

IRM and Light Construction

Our Values



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Integrity



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Performance



Collaboration



Innovation



subsea 7

# Seven Viking

## Vessel Info

Full specification overleaf

**Seven Viking is an IRM, Light Construction, Scale Treatment and Diving Support services vessel.**

- Length 106.5m x breadth moulded 24.5m
- Service speed 14.0 knots
- Accommodation 90 persons
- AHC offshore crane: 135t at 13m
- Air Diving
- 2x work-class ROVs
- 1x observation class ROV
- Module Handling System, capacity 70t modules
- Scale Squeeze System integrated in vessel
- All vessel systems designed for 5.0m Hs limitation

## Fast Facts

- Hybrid power for reduced fuel and emissions
- Twist locks on deck and weld free seafastening on skidding track, that allows for weld free mobilisations
- Extensive experience in module handling with module handling system through moonpool, including installation/recovery of vertical and horizontal X-mas Trees, control modules, choke modules, subsea compressor modules, 79t desander module



## Seven Viking

### General Information

Classification	<b>DNVGL with the following class notations: 1A1 Well stimulation vessel Clean(Design) COMF(C-3, V-3) DEICE DYNPOS(AUTR) E0 HELDK(CAA-N, H, S) Ice(C) LFL(2) NAUT(AW) SF, Battery (power) class notation Norway 2013 Norway</b>
Built	<b>Norway 2013</b>
Flag State Authority	<b>Norway</b>

### Principal Dimensions

Length Overall	<b>106.5m</b>
Breadth moulded	<b>24.5m</b>
Draught (operational)	<b>6.5m</b>
Draught (max)	<b>8.0m</b>
Freeboard at operational draught	<b>5.0m</b>
Freeboard at max draught	<b>3.5m</b>

### Main Deck

Deck strength	<b>10t/m<sup>2</sup></b>
Deck area	<b>600m<sup>2</sup> with load bearing capacity of 10t/m<sup>2</sup> (aft of moon pool)</b>

### Tank Capacities (100%)

Fuel MDO	<b>2,100m<sup>3</sup></b>
Fresh water (potable)	<b>1,490m<sup>3</sup></b>
MEG / Brine	<b>552m<sup>3</sup></b>
Special Products, LFL	<b>440m<sup>3</sup></b>

### Power and Propulsion

Service Speed	<b>14.0 knots</b>
Generators	<b>2x 4,320kW main diesel 2x 1,824kW main diesel 1x 448kW emergency generator</b>
Propulsion Thrusters	<b>3x 3 MW contra rotating azimuth 1x 1.4 MW retractable compass 1x 1.4 MW combi retractable 1x 1.7 MW tunnel SCR (NOx Catalyst) on exhaust</b>

### Weld-free seafastening

Twist locks are integrated in part of the working deck for quicker mobilisation/demobilisation of standard containers.  
Weld free seafastening system on 6x Skidding pallets

### DP Systems

Kongsberg Maritime K-Pos DP-22	<b>3x MRU's, 3x Gyro's, 3x Wind Sensors, 2x DGPS (Seatex DPS 132 and 232), 2x Seapath 330 2x HiPAP 500, 1x Radius 1x CyScan</b>
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### Cranes

Main AHC Offshore Crane Maximum reach	<b>135t at 13m 30m</b>
Wire length	<b>2,000m</b>
AHC whip line	<b>13.5t at 6-30m</b>
Whip line wire length	<b>1,000m</b>
Operational limit	<b>5.0m Hs Man riding</b>

### Auxiliary telescopic cranes

Crane for provision Cranes in MHS hangar	<b>2t at 15.2m PS 1x 2.86t at 9.3m SB 1x 1t at 9.1m</b>
Crane on pallet Crane in ROV hangar	<b>1x 1.1t at 11m 1x 0.5t at 4.5m</b>

### Module System

<b>Winches</b>	<b>1x 70t (possible to upgrade), 1x 20t, 3x 5t</b>
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MHS fully integrated in hangar with cursor system for controlled launch and recovery of modules to 2,000msw in conditions up to 5m Hs.  
Capacity to handle modules up to 70t and 10m height  
Skidding system with storage capacity of up to 8 skidding pallets, including 4 indoor storage positions.  
Integrated AHC winch with dedicated HPU for 12 lines hydraulic downline.

### ROV Systems

All ROV systems in enclosed ROV hangar.  
2x work-class ROVs (Schilling HD), rated to 3,000 msw, launched over side by A-frames. AHC Umbilical winch, 2,500m umbilical.  
1x observation ROV (SubAtlantic Mohican), rated to 2,000 msw, launched by A-frame. AHC Umbilical winch, 1,800m umbilical.  
Operational limit 5.0m Hs for all systems.

### Helideck

Mid Ship Helideck	<b>SuperPuma, Sikorsky S-92, D value 20.9m</b>
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### Accommodation

Personnel Cabins (No.)	<b>90 64 single, 13 semi-single cabins</b>
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### Scale Treatment / RFO

Scale treatment pumping spread and special product tanks integrated in vessel.  
Pumping capacity 30-2,800 l/min at 0-345 bar.  
Pre heating to 90°.  
Mixing units for small volumes of additives.

### Operation control

Joint operation control room for Shift Supervisor, MHS control, ROV control, Scale Treatment control, third party control and survey with direct view to MHS.



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