

# Seven Viking

IMR & Light Construction

i-Tech<sup>7</sup>



**Seven Viking is an IMR, 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 @13m
- Air Diving
- 2 x work-class ROVs
- 1 x observation class ROV
- Module Handling System, capacity 70t modules
- Scale Squeeze System integrated in vessel
- All vessel systems designed for 5.0m Hs limitation

Deeper Challenges,  
Wider Horizons

## General Information

Classification	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(*) NAUT(AW) SF
Built	Norway 2013
Flag State Authority	Norway

## Dimensions

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

## Main Data

Service Speed	14.0 knots
Accommodation	90 persons (64 single cabins, 13 semi-single cabins)
Personnel elevator	
Mid Ship Helideck	SuperPuma and Sikorsky S-92, D value 20.9m

## Power generation and propulsion

Generators	2 x 4,320 kW main diesel 2 x 1,824 kW main diesel 1 x 448 kW emergency generator
Propulsion Thruster	3 x 3 MW contra rotating azimuth 1 x 1.4 MW retractable compass 1 x 1.4 MW combi retractable 1 x 1.7 MW tunnel SCR (NOx Catalyst) on exhaust

## Tank Capacities (100%)

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

## Dynamic Positioning Systems

Kongsberg Maritime K-Pos DP-22	
	3 x MRU's
	3 x Gyro's
	3 x Wind Sensors
	2 x DGPS (Seatex DPS 132 & 232)
	2 x Seapath 330
	2 x HiPAP 500
	1 x Radius
	1 x CyScan

## Working Deck

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

## 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 6 off Skidding pallets

## Cranes

Main Crane	
AHC offshore crane	135t @13m
Maximum reach	30m
Wire length	2,000m
AHC whip line	13.5t @ 6-30m
Whip line wire length	1000m
Operational limit	5.0m Hs
	Man riding
Auxiliary Cranes	
Telescopic crane for provision	2t @ 15.2m
Telescopic cranes in MHS hangar	PS 1 x 2.86t @ 9.3 m SB 1 x 1t @ 9.1m
Telescopic crane on pallet	1 x 1.1t @ 11m
Telescopic crane in ROV hangar	1 x 0.5t @ 4.5m

## Module Handling System

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.

Winches: 1 x 70t (possible to upgrade), 1 x 20t, 3 x 5t.

Integrated AHC winch with dedicated HPU for 12 lines hydraulic downline.

## ROV

All ROV systems in enclosed ROV hangar  
2 x work-class ROVs (Schilling HD), rated to 3,000 msw, launched over side by A-frames. AHC Umbilical winch, 2,500m umbilical.

1 x 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

## Scale Treatment / RFO

Scale treatment pumping spread and special product tanks integrated in vessel

Pumping capacity 30-2,800 l/min @ 0-345 bar

Pre heating to 90 deg

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.