

Wavefield Inseis ASA

12 streamer vessel



Wavefield Inseis ASA is a Norwegian marine geophysical company providing a high quality range of services, aimed at increasing the exploration success of its clients and to assist them in maximising production from their existing reservoirs.

With a management team comprising some of the most experienced professionals in the industry, combined with a dedicated, highly flexible and responsive group of engineers and geophysicists, the company possesses the key strengths to benefit any project.

Wavefield Inseis' range of services includes long offset 2D and high capacity 3D acquisition, using highly specified vessels and the latest seismic equipment. The company is also a full service permanent 4D acquisition provider bringing – through a number of strategic alliances – new technologies to market, to further accelerate and de-risk the replenishment of clients' reserves.

Wavefield Inseis believes a flexible and responsive project team is the most effective way to deliver the best possible results. The company is committed to preserving the health and safety of everyone involved in its operations and to protecting the local and worldwide environment.

M/V Geowave Champion

Owner	Solhaug AS
Maritime operator	Shipman AS
Built	1994 Th. Hellesøy Shipyard, Løfallstrand, Norway
Converted	2007 FMV Fitjar, Norway
Converted to seismic vessel	2007
Port of registry	Bergen
Register	NIS
Classification	DNV
Length overall	106.3m
Breadth	22.4m
Gross tonnage	9405 tons
Draft fully loaded	Max 6.9m
Fuel capacity	2128 cum HFO, 1393 cum MDO
Fresh water	290 tons
Fresh water maker	Alfa Laval EVA and ENVA Reverse Osmosis
Maximum speed	16 knots
Helideck	22m, 12.8 tons
Accommodation	51 cabins, 60 berths

Machinery

Main engine	1 x Wärtsila VASA 6R46B 7845 HP – 500 rpm – HFO/MDO Shaft Generators: 2 x 2340KW
Aux engines	1 x Wärtsila VASA 6R32E 2439KW HFO/MDO 2 x Wärtsila NOAB 1800KW MDO
Propulsion	Propeller: 1 x Wichmann 4.2m dia 139 RPM Direct gear coupled to main engine with diesel electric PTI backup 3000KW
Bow thrusters	Asimuth bow thruster: Brunvoll 800KW Tunnel bow thruster: Brunvoll 745KW
Compressors	3 x NEA 57 1100KW, 2000 cfm 2000 psi
Deck cranes	1 x SWL 10t 16m, 1 x SWL 10t 13m, 1 x SWL 3.5t 16m

Navigation and communication equipment

Dynamic positioning system	N/A
Navigation	GPS Furuno & DGPS Sercel
Radar	Furuno FAR2137S (3cm), Furuno FAR2117S (10cm)
Gyro	Simrad GC80, Robertson RGC11
Echosounder	Furuno, Model FE-700
Weather fax	Navtex + Internet
Satellite communication	VSAT - Vizada Dual 256 kb/s, Fleet 77- NERA

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M/V Geowave Champion Seismic equipment

Streamers and sensors

Item	Type
Streamers	Sercel Seal 24-bit, digital
Typical streamer configuration	12 x 12km, 10 x 6km available
Depth control	Digicourse 5011
Bouyancy	Isopar M
Retrievers	OYO SRD 500S
Streamer skin	Polyurethane
Hydrophones	Benthos Geopoint or SLH 20
Section length	150m
Section diameter	52m
Group length	12.5m
Streamer sensitivity	17.4V/bar
Number of channels	4800

Source/Mechanical

Item	Type
Guns	60, Bolt Long Life
Chambers	40 – 300 cui
Dual gun clusters	24
Near field hydro-phones	AGH-7100-C
Depth sensors	AGH-33M3
Source, typical	Dual 3280cu.in, Dual 4100 cu.in. 2 x 3 sub-arrays
Source controller	Seamap Gunlink 2000, 72 ch
NFH recording	Seamap Gunlink, SEG D
Timing resolution	100uS
Deflectors	BARO 48
Pressure sensor	AGH-33M4

Recording

Item	Type
Acquisition	Sercel SEAL
Format	SEG D 8058
Recording media	Hard disk, IBM 3590, IBM 3592
Computer systems	Sun
Bird controller	Digicourse
Sampling	$\frac{1}{4}$, $\frac{1}{2}$, 1, 2, 4ms
Aux channels	12 on SEAL 72 on Gunlink
Plotter	Isys 24"
Offline Qc	Geotrace
Online Qc	Argus Geotrace
Qc systems	IBM Linux

Navigation

Item	Type
Navigation online	Concept ORCA
Navigation offline	Concept Sprint
Binning	Concept ORCA / Reflex
Streamer positioning	RGPS, Compasses and Acoustics
Source positioning	RGPS and Acoustics
In-sea acoustics	Sonardyne SIPS-2
Compasses	Digicourse 5011
Data formats	UKOOA
Work stations	IBM Linux

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