



**ROSGEO**  
Russian State Geological Company

**Dalmorneftegeophysica**



*Full compliance with SOLAS, Marpol 73/78 and other relevant maritime and industrial standards, E&P Forum and IAGC requirements.*

## SEISMIC SURVEY VESSEL АКАДЕМИК FERSMAN

# GENERAL

### VESSEL SPECIFICATIONS

<b>Name/Type</b>	<b>Akademik Fersman/Seismic Survey Vessel</b>
<b>Built/Last Upgrade</b>	<b>1986, Szczecin, Poland/2007, Singapore</b>
<b>Owner/Port of registry/Flag</b>	<b>JSC "Dalmorneftegeophysica"/Korsakov/Russia</b>
<b>Classification/Call Sign</b>	<b>RMRS - KM UL 1 A2/UFTQ</b>
<b>MMSI/IMO</b>	<b>273455310/8313958</b>
<b>Tonnage gross/net</b>	<b>3108/932 t</b>
<b>Length/Beam/Draft</b>	<b>81.85/14.8/5.0 m</b>
<b>Cruising Speed</b>	<b>11.0 knots</b>
<b>Endurance/Navigation Area</b>	<b>60 days/Unlimited</b>
<b>Accommodation</b>	<b>50 + Hospital</b>
<b>Capacity Fuel/Fresh water</b>	<b>765/216 t</b>

Consumption Fuel/Fresh water	12/14 m <sup>3</sup> (transit/survey)/10 t
Fresh Water Maker	SGG 12/16, 8 t/day
Cranes Front/Rear	2x6 m (500 kg)/13 m (950 kg) & for Tail Buoy 8 m (3800 kg)
Main Engine	Zgoda - Sultzer 6ZL 40/48, 4200 BHP/3090 kW, 505 rpm
Shaft Generator	1200 kW
Diesel/Emergency Generators	2x504 kW/92 kW
Bow Thruster & Propeller	Zamech, 300 hp/220 kW & CPP PH 1150/4-R315, Ø 3000 mm
Incinerator Capacity	hard garbage - 50 kg/hour, oil mud - 30 kg/hour
Planning & Maintenance System	TM-Master

## COMMUNICATION AND NAVIGATION EQUIPMENT

GMDSS Radio SSB/VHF	SAILOR 5000 MF/HF/SAILOR RT 5022 VHF with DSC
Emergency Radio	3xHandheld VHF
VSAT (TracPhone V7 mini-VSAT)	PM: +1 609 3852353, Captain: +1 616 5223172;
Marlink	PM: +47 236 755 01; Captain: +47 236 755 00;
Inmarsat /C/Fax	Nera S90 & Fleet 77/Thrane & Thrane/+ 870 764 642655;
Internal/Public Access	Dial Exchange Station/Intercom Ryabina UB-5P
Iridium	+881 6 777 35 711;
Speed Log/Voyage Data Recorder	Furuno Doppler DS-80/Furuno VR-300-S
Weather Fax/Navtex	Furuno Fax 208 Mark II/Lo-Kata
GPS Navigator/Autopilot	Furuno GP-150/Robertson AP-30
Radar 1/2 ARPA, GPS connected	Furuno FAR 2835S/Concilium Selux 340 WS with add-on ice device
Gyrocompass/Echo Sounder	Sperry Navigat X MK2/Furuno FE-700

## SAFETY AND FIRE-EXTINGUISHING EQUIPMENT

SSAS/AIS	Sailor TT-3000SSA/Samyung Enc SIS-5R
Video Monitoring	Cameras on back mast, back deck. Control by network PC
Rescue Boat	MP-741 SPRINGER, Equipped after SOLAS
Survival Suits & Life Rafts/MOB Life Raft	60 & 6x25 men/HAI AN 1x6 men
Life Ring/Line Thrower/Smoke Hoods	12/Comet/50
Life/Work Vests & Life Buoys	100/10 & 8
Fire Suits/Air compressor	3 with BA-sets/Bauer 225 bar
Fire/Emergency pumps	100/40 m <sup>3</sup> /hour
CO <sup>2</sup> System	Paint store, Cargo hall, Main Engine & Emerg. engine rooms
ME/Compressor/Instrument rooms	Water system, foam & CO <sup>2</sup> fire extinguishers
Streamer reel fire fighting	Water sprinkle system
Fire Extinguisher	32xCO <sup>2</sup> , Foam: 42x9 L, 1x150 L, 1x100 L, 3xDry powder
Drainage pumps	Main 63 m <sup>3</sup> , Aux. 10 m <sup>3</sup>
Medical Equipment	Certified to ships medicine no.10. First aid boxes

## SAFETY PROCEDURES

Fire/Lifeboat/MOB Drills	Every month
Equipment testing	In accordance with schedule/Every day
Safety meetings	Twice each shift
PPE	Safety shoes, hard hats, eye & ear protection

# SEISMIC EQUIPMENT SPECIFICATION

## RECORDING EQUIPMENT



### *On-Board Equipment*

### *In-Sea Equipment*

Recording System	DigiSTREAMER	Streamer	DigiSTREAMER, gel
Recording Format	SEG-D, 32 bit IEEE, 8058	Streamer/Section Length	12000/150 m
Active/aux. channels	648/12	Group per section/Spacing	8/12.5 m
Seismic QC	eSQC-Pro for Linux	Type/No of Hydrophones	Teledyne T-2BXE/8
Recording device	external HD	Streamer Control	Digicourse SYS3, birds 5011E
Thermal Plotter	V24 iSys	Active Tailbuoy	TB 800L

## NAVIGATION



Integrated Nav. System	2D Spectra, Concept	Inmarsat Corrections	POR, AOR, IOR-optional
Survey Company	Svarog(Fugro)	Interface program pack	Fugro MRDGPS
Primary Positioning	DGPS Starfix HP L1/L2 & RGPS	Navigation Processing	SeisPos & P1Tools
Secondary Positioning	Skyfix XP L1/L2 & RGPS	Gyrocompass	Meridian Standard
GPS receivers	StarPack	Echosounder	Simrad EA600

## ENERGY SOURCE

## QC PROCESSING



Type/No of arrays	Single Source/4	Server	2xDell PowerEdge R730
Air Guns Type/Volume	G Gun, Sercel/up to 6080 in <sup>3</sup>	Processor / Memory (RAM)/ Internal disk volume	2 x Xeon E5-2640v4 (2.4GHz, 10 cores)/ 192GB/48 TB
Gun Controller	GunLink2000, SeaMap	OS/Software	Linux /ProMax
Compressor	Cherko Joy WBF 74xYD Ariel JGJ/4 – 1600 SCFM	Thermal plotter	OYO 24”