



# AKADEMIK FERSMAN



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

## VESSEL SPECIFICATION

### GENERAL

<b>Name</b>	Akademik Fersman	<b>Accommodation</b>	50 + Hospital
<b>Type</b>	Seismic Survey Vessel	<b>Capacity Fuel/Water</b>	765/216 t
<b>Built</b>	1986, Szczecin, Poland	<b>Consumption Fuel/Water</b>	12/14 m <sup>3</sup> (transit/survey)/10 t
<b>Converted</b>	2007, Singapore	<b>Fresh Water Maker</b>	SC 11/16, 8 t/day
<b>Port of registry/Flag</b>	Korsakov/Russia	<b>Main Engine</b>	Zgoda-Sultzer 6ZL 40/48, 4230 BHP/3090 kW, 505 rpm
<b>Owner &amp; Operation</b>	JSC DMNG	<b>Auxiliary Engine</b>	Zgoda-Sultzer 8AL20/24, 735BHP/2x548 kW, 750 rpm
<b>Classification</b>	RMRS KM UL 1 A2	<b>Shaft Generator</b>	1200 kW
<b>Call Sign</b>	UFTQ	<b>Diesel/Emerg. Generators</b>	2x504 kW and 850 kW/92 kW
<b>MMSI</b>	273455310	<b>Propeller</b>	CPP PH 1150/4-R315
<b>IMO</b>	8313958	<b>Bow Thruster</b>	Zamech, 300 hp/220 kW
<b>Gross/Net Tonnage</b>	3108/850 t	<b>Cranes:</b>	
<b>Length/Beam/Draft</b>	81.85/14.8/5 m	- Front	2x6 m/500 kg
<b>Cruising Speed</b>	11.0 knots	- Rear	13 m/950 kg & 8 m/3800 kg
<b>Endurance</b>	60 days	<b>Incinerator Capacity</b>	hard/oil mud - 50/30 kg/hour
<b>Navigation Area</b>	Unlimited		
<b>Plan &amp; Maintenance System</b>	Star IPS		

**COMMUNICATION****NAVIGATION**

<b>GMDSS Radio:</b>		<b>Speed Log</b>	Furuno Doppler DS-80/Lo-Kata
- SSB/VHF	SAILOR 5000 MF/HF /SAILOR RT 5022	<b>Weather Fax/Navtex</b>	Fax 208 Mark II
- Emergency	3xHandheld VHF	<b>Autopilot</b>	AP-30
<b>VSAT</b>	TracPhone V7 mini-VSAT/4 Lines	<b>Voyage Data Recorder</b>	VR-300-S
<b>Inmarsat B/C</b>	Nera S90 & Fleet 77/Thrane&Trane	<b>GPS Navigator</b>	Furuno, GP-80
<b>Internal</b>	Dial Exchange Station	<b>Radar 1/2 ARPA, GPS</b>	Furuno FAR 2835S/Furuno FR 2115
<b>Public Access</b>	Intercom Ryabina UB-5P	<b>Gyro/Echo Sounder</b>	Navigat X MK2/Furuno EA-700

**SAFETY**

<b>SSAS</b>	Sailor TT-3000SSA	<b>Fire/Emergency pump</b>	100/40 m <sup>3</sup> /hour
<b>AIS</b>	Samyung Enc SIS-5R	<b>CO<sup>2</sup> System</b>	ME& Emerg. engine rooms, Paint store, Cargo Hall
<b>Video Monitoring</b>	3xAXIS 232D	<b>ME/Compr./Instr. rooms</b>	Water system, foam & CO <sup>2</sup> fire extinguishers
<b>Rescue Boat</b>	MP-741 SPRINGER	<b>Streamer reel</b>	Water sprinkle system
<b>Survival Suits/Line Thrower</b>	60/Comet	<b>Fire Extinguisher</b>	32xCO <sup>2</sup> , Foam: 42x9L, 1x150L, 1x100L, 3xDry powder
<b>MOB Life Raft</b>	HAI AN & 1x6 men	<b>Drainage system</b>	Main/Aux. pump 63/10m <sup>3</sup>
<b>Life Rafts/Buoys</b>	6x25 men/8	<b>Medical Equipment</b>	Certified to ships medicine no.10
<b>Life/Work Vests</b>	100/10		
<b>Fire Suits</b>	3 with BA-sets		
<b>Air compressor</b>	Bauer 225 bar		

**SEISMIC EQUIPMENT SPECIFICATION****RECORDING EQUIPMENT**

<i>On-Board Equipment</i>		<i>In-Sea Equipment</i>	
<b>Recording System</b>	DigiSTREAMER, ION	<b>Streamer Type</b>	DigiSTREAMER, ION
<b>Data Storage</b>	Data Management Server	<b>Streamer/Section Length</b>	8000/100 m
<b>No Data/Aux. Channels</b>	648/16	<b>Group per section/Spacing</b>	8/12.5 m
<b>Sample Rate</b>	0.5, 1, 2, 4 ms	<b>Type/No Hydrophones</b>	T-2BXE/8 per group
<b>Tape Format</b>	SEG-D	<b>Streamer Control</b>	Digicourse SYS3, 5011E
<b>Tape Drive</b>	2 x IBM 3592	<b>Streamer Recovery Device</b>	SRD-500, GeoSpace
<b>Thermal Plotter</b>	OYO GS-624	<b>Active Tailbuoy</b>	TBL 1000L

**NAVIGATION & POSITIONING**

<b>Real-Time Navigation</b>	2D Spectra, Concept	<b>Inmarsat Satellites</b>	POR, AOR, IOR - selectable
<b>Survey Company</b>	Svarog(Fugro)	<b>Interface program pack</b>	Fugro MultiFix
<b>Primary Positioning</b>	DGPS Starfix HP L1/L2 & RGPS	<b>Nav Processing</b>	SeisPos & P1Tools
<b>Secondary Positioning</b>	Skyfix XP L1/L2 & RGPS	<b>Gyrocompass</b>	Meridian Surveyor
<b>GPS receivers</b>	StarPack	<b>Echosounder</b>	Echotrac CV

**ENERGY SOURCE****QC PROCESSING**

<b>Type/No of Subarray</b>	Single Source/4	<b>Workstation</b>	2xDell T5500
<b>Air Guns/Volume</b>	G-Gun, Sercel/up to 5000in <sup>3</sup>	<b>OS</b>	Red Hat Linux
<b>Gun Controller</b>	BigShot, Real Time Systems	<b>Software</b>	ProMax
<b>Compressors</b>	Hamworthy 1600E & Ariel JGJ/4	<b>Thermal Plotter</b>	OYO GS-624



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