

# Sanco Spirit Maritime and Seismic Specification

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## ***Maritime Specification Summary***

Name	<b>Sanco Spirit</b>
IMO number	9429936
Owner	Sanco Shipping AS
Maritime operator	Jon Aklestad (Sanco Shipping AS)
Flag	GIBRALTAR
Port of registry	Gjerdsvika, Norway
Call sign	ZDJN 3
Builder	Vaaggland Båtbggeri AS, Norway
Built	2009
Classification society and notations to class	DNV + 1A1, ICE-C, HELDK-SH, RP, EO, DYNPOS-AUTR.

## **Vessel Dimensions**

Length	86 M
Breadth	16,00 M
Draft	5,80 Loaded . 4,50 M in Ballast

## **Vessel Tonnage**

Gross (IMO-69)	4396
Net	1319

**Vessel Capacities**

Fuel	1100m3
Maximum endurance (shooting/transit)	Transit = 27m3/day..Shooting endurance..?10 m3.day,when not towing cables
Vessel Cruising Speed Knots	13 kts
Vessel Speed Knots	13
Maximum Transit Speed Knots	15 kts
Power Plant	4 x 1593 kW, ABC Diesel, 8 DZC, 900 RPM
Propulsion type	2 x Stadt Stascho 2500 KW
Pumps	[Pumps]
Fresh water maker capacity	117m3
Accommodation	47 (13 x Single cabins and 17 double cabins)
Helideck	Diameter 20 m, 11 ton

**Communications Systems**

Inmarsat B	+870764946968 (69)
Direct Phones	[Direct Phones]
Norsat	+31107130612 (13) (14)

**Navigational Aids**

Radar	3 cm Furuno FR 2117 and 10 cm Furuno FR 2137 S, Arpa
Auto pilot	Kongsberg with track steering
Heading sensor	Kongsberg Seapath
Echosounder	Furuno FE-700
Water speed log	Furuno DA-80

**Vessel Fire Fighting Equipment**

Fire detection system	
Pumps	Allweiler
Portable Fire Extinguishers	[Portable Fire Extinguishers]
Hydrants and hoses	[Hydrants And Hoses]

Inert gas and other fixed systems	CO2.Flexifog/ Water mist
Foam deluge system	Foamsystem for helideck ,

### **Vessel Safety and Survival**

Fireman's outfits	4
Breathing apparatus	[Breathing Apparatus Spares] spares
Life boats	n/a
Life rafts	6 x 25 persons
MOB raft	n/a
Life jackets	99
Survival suits	52
Life buoys	10

### **HSE**

[Vessel HSE]

## **Seismic Specifications**

### **Streamer Systems**

Manufacture and type	PGS GeoStreamer® Solid
Skin material	Polyurethane
Outside diameter	62mm cm
Length of each group	12.5m m
Streamer set-up	Typical 1 x 10050m
Manufacture and type of hydrophones	Hydrophones: Teledyne T-2BX or equivalent, Velocity Sensors: PGS confidential (MarkIII)
Type of array (e.g. linear, binomial)	Linear
Number of hydrophones per group/distance apart	Hydrophones: 12 per 12.5m, Velocity Sensors: PGS confidential
Coupling between phones and pre-amp	Capacitive
Sensitivity of near group at 1/P to recorder	20V/Bar
Sensitivity of far group at 1/P to recorder	20V/Bar
Bandwidth over which above sensitivities apply	Specified at 100Hz
Availability of shoreside spares if required	Pool system
Manufacturer and type of depth controller	ION DigiCourse 5011
Manufacturer and type of compass	ION DigiCourse 5011

### **Recording System**

Manufacturer, type	Acquisition System: PGS GeoStreamer 24bit, Recording System: PGS gAS
Number of seismic and auxiliary channels	Typical 1 x 804 + 48
Format(s) available	SEG-D revision 1.0 and 2.1
Tape drives	IBM 3592
Sample rates	1ms, 2ms, 4ms
High cut filter	428Hz, 214Hz, 107Hz @ 341dB/oct
Low cut filter	Hydrophones: 3.04Hz @ 7.5dB/oct, 4.4Hz @ 12dB/oct, Velocity Sensors: PGS confidential
Auxiliary channels allocation	Recorded as separate streamer or appended to streamer 1
Telemetry systems array forming capabilities	Optional

**Energy Source**

Manufacturer and type	Sercel – G Gun 2
Effective volume of standard array(s)	3111 ci
Maximum number of sub-arrays	6
Standard array depth(s)	7 M
Position of depth transducers	Front and tail of sub-array
Working pressure	2000 psi psi
Type of firing sensors	Pressure activated
Position of firing sensors	Mounted directly on the gun.
Type of firing synchroniser unit	RTS BigShot
Timing resolution	0.1ms ms
Timing accuracy	+/- 1.0ms
Position of near field phones	1 mounted on each gun hang frame.
Air compressors capacity	Neuman & Esser, 2200 cfm each
Number of air compressors	2

**Navigation and Positioning Systems****Differential GPS**

Standard system	Starfix XP and HP
Subcontractor	[Subcontractor Differential GPS]
Processing software	[Processing Software Differential GPS]

**Relative GPS**

Standard system	Fugro Seatrack RGPS
Processing software	[Processing Software Relative GPS]

**Vessel Heading Sensors**

GPS heading reference	[GPS Heading Reference]
Survey gyrocompasses, No/Make/Model	SGBrown Meridien

**Acoustic Ranging System**

Manufacturer/Model	n/a
Frequency	n/a
Type of units	n/a

Sound Velocity Meters	[Sound Velocity Meters]
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### **Echosounder**

Manufacturer, type and model number	Kongsberg EA-600
Frequencies	18 Khz and 32kHz to be confirmed
Maximum sounding depth	[Maximum Sounding Depth M] m

### **Integrated Navigation Computer System**

Type	ORCA
Supplier	Concept - ORCA
Hardware description	[Hardware Description Integrated Navigation Computer System]
Tape drives	[Tape Drives Integrated Navigation Computer System]

### **Binning System**

Type	n/a
Supplier	Concept System, Limited
Hardware description	Reflex

### **Navigation Post Processing System**

Type	[Type Navigation Post Processing System]
Supplier	Concept - ORCA
Software Version	[Software Version Navigation Post Processing System]
Hardware description	Concept Sprint
Plotter	HP-4550..?

### **Onboard Seismic Data Processing**

Standard hardware configuration	N/A
Secondary hardware configuration	2 x IBM x3650 server, 1 x EonStor RAID disk array (9TB), 1 x HP z800 visualisation terminal, 1 x HP xw6600 visualisation terminal, 4 x IBM 3592 tape drive
Standard hardware capacity	N/A

Secondary hardware capacity	[Secondary hardware capacity Onboard Seismic Data Processing]
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