

# SY SANTA MARIA AUSTRALIS - Technical Details

SV SMA has been designed and equipped for long distance cruising in comfort.

She is a 66-foot aluminium ketch built in Gdansk, Poland in 1998.

She is built and surveyed under the Classification of Germanischer Lloyd.

Her safety equipment is monitored by GL every 2 years.

## **SV SMA possesses CECertification Category A (Ocean).**

Further equipped in Southampton, England in 2004 to endure high latitude sailing conditions.

During this occasion SMA was upgraded to modern standards and she was brought up to **English MCA requirements as a sail-training vessel.**

SV SMA is currently sailing under full service.

**She possesses the German CERTIFICATE OF SECURITY (Ocean),** issued by the German Seamen's Accident Prevention and Insurance Association. Last inspection 2019.

SV SMA can accommodate up to a total of 12 people. She sails under German flag, registered in Berlin.

In 2006, SV SMA reached these southern latitudes and has since, endured 40 Antarctic expeditions as of March 2020. In 2011 she managed to sail the Northwest Passage.

<b>Builder</b>	Fa. Bretsch, Böblingen, BRD
<b>Designer</b>	Kurt Reinke
<b>Type</b>	Hydra 47
<b>Built</b>	1983
<b>LOA</b>	14.76 m
<b>LWL</b>	12.76 m
<b>Beam</b>	3.90 m
<b>Draft</b>	1.60 m
<b>Displacement</b>	32 tons

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## Hull and Deck

- Aluminium hull, deck & superstructure.
- Teak laid decks.
- Double-glazed port lights throughout.

## Rig

- Bermudan Ketch Rig – Sail Area 220sqm (2368 sq ft).
- Profurl furling units on headstay and cutter stay.
- Inmast furling for mizzen.
- Stainless Steel wire standing rigging.
- Lewmar fittings.

## Sails

- Mainsail 60 sq.m, full batten system with 3 reefs and lazy-jacks.
- Furling Genoa 93 sq.m.
- Furling Yankee 58 sq.m.
- Furling Staysail 42 sq.m.
- Furling Storm Staysail 23 sq.m.
- Furling Mizzen 27 sq.m.
- Spinnaker.
- Cruising Chute.

## Winches

- Lewmar chrome winches.
- 2 x 64 EST in cockpit for genoa and staysail sheets.
- 2 x 54 ST in cockpit for headsail reefing lines.
- 3 x 40 ST on main mast.
- 2 x 40 ST on mizzen mast.

## Ground Tackle

- Electric windlass 2000w 24v with remote control at bow & helm.
- 70 kg Rocna Anchor.
- 60 kg Bügel Anchor.
- 150 meters chain / 14 mm.
- 100 meters tow / anchor line.
- 600 meters shorelines.

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## Engines

- Twin Deutz Vetus Diesel DT43 106hp (2x 78kw).
- Two x 3 blade propellers.
- Fuel capacity: 5,100 liters (1,125 imperial gallons).
- Approximate range, engines only @ 2,500 miles

## Machinery

- SV SMA has a very well laid out full walk-in engine room with generous standing height, housing most of the ships mechanical & electrical systems, laid out for ease of access to all equipment.
- Generator 9.5 Kva Fisher Panda in sound proof box at aft end of engine room.
- Diving Compressor Bauer Junior in lazarette. Available when required.
- Water maker Technicomar (max 140 litres / hour) in engine room.
- Central heating Reflex Diesel Stove with hot water circulation to all cabins, heads & saloon.
- Electric toilet system Sealand VacuFlush with holding tank.

## Electrical

- Electrics: 12v / 24v / 220v.
- Services 460AH, Navigation 460AH, Starting 230AH and separate 80AH to generator to allow main engine starting in case of main battery bank discharge.
- 2 x Solar panels to navigation systems.

## Plumbing

- Fresh Water: 2500 litres.
- Grey Holding: 1,600 litres.
- Black Holding: 500 litres (with deck suck out facility).
- Hot water: 2 x Vetus hot water tanks, 150 litres total (33 imperial gallons) in engine room (immersion or engine).

## Navigation Instruments

- Simrad / Anritsu open 48 miles radar with scanner on mizzenmast.
- Furuno 24 miles radar with scanner on mizzenmast.
- B&G autopilot.
- B&B Zeus7 GPS, chart plotter & depth plotter (mono at helm).
- B&G - Full suite of navigation units.
- Cassens & Plath 6" hemispherical compass.

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## Communications Equipment

- B&G V50 Marine Radio DSC repeated at helm.
- Icom M700 SSB radio.
- 2 x handheld VHF's <sup>[1]</sup><sub>SEP</sub>
- Furuno Navtex NX-700B
- Iridium Satellite Phone.

## Safety

- 2 x Plastimo SOLAS 8 man life rafts in cradles with emergency release System.
- 1 SOLAS Ring Buoy Rack with Rescue Line.
- 1 SOLAS Ring Buoy Rack with Overboard Pole, SOS Distress Light and Parachute Sea Anchor
- 2 x Lifesling Overboard Rescue System.
- 12 x Life Jackets with Safety Lines.
- ACR EPIRB.
- Jotron Tron AIS Sart.
- Raymarine 430 loudhailer, internal hailer & ships horn.
- Full Ocean flares pack.
- Auto CO2 fire system to engine room.
- 6 x Dry powder extinguishers throughout the ship, 2 fire blankets.
- Salt and fresh water pumped firefighting outlets in cockpit.
- 6 auto bilge pumps.
- 6 manual bilge pumps.
- 1 manual & 1 electric bilge pump (movable).
- Stern platform with security ladder to deck & sea.
- Inflatable ZODIAC Mark II Classic Dinghy with Yamaha 15 hp outboard motor.

