

## ASTRA — CUSTOM



**Builder:** CUSTOM

**Year Built:** 1995

**Model:** trawler

**Price:** €2,000,000 EUR

**Location:** Spain

**LOA:** 76' 8" (23.35mm)

**Beam:** 21.75

**Min Draft:** 8' 3" (2.5mm)

**Max Draft:** 10' 6" (3.2mm)

**Cruise Speed:** 8.4 Knots Kts. (10 MPH)

**Max Speed:** 13 Knots Kts. (15 MPH)

Our experienced yacht broker, Andrey Shestakov, will help you choose and buy a yacht that best suits your needs **ASTRA — CUSTOM** from our catalogue. Presently, at Shestakov Yacht Sales Inc., we have a wide variety of yachts available on our sale's list. We also work in close contact with all the big yacht manufacturers from all over the world.

If you would like to buy a yacht **ASTRA — CUSTOM** or would like help answering any questions concerning purchasing, selling or chartering a yacht, please call **+1(954)274-4435**

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# SPECIFICATIONS

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## Overview

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ASTRA is a super strong expedition vessel that can go anywhere in the world, regardless of the weather. After completing her 151 day circumnavigation via the five southern capes in May followed by an extensive shipyard period she is ready to depart for Antarctica or the Northwest Passage.

In Dag Pike's article on ASTRA in Passagemaker magazine in March 2018 he said:

"...I would put this 80-footer in the category of the ultimate passagemaker - a vessel capable of taking on the world's toughest oceans and coming out on top. She has to be one of the toughest boats of her size ever built... with traditional sheer lines and purposeful superstructure. No frills here, just a proper functional boat built for one of the toughest jobs in the world".

ASTRA is a 23.35 meter customized polar expedition vessel with the highest ice class rating and ice breaking capability. All this on a vessel that is just below 24 meters in length and also European CE certified.

According to construction drawings on board (and confirmed by thickness measurements carried out during the survey in September 2020), the hull shell plating thickness varies from 15mm on the bottom plates tapering through 13, 11 and 9mm on the outer shell plating and deck areas. UTI testing (Sep 2020) indicated less than 4% reduction in the original shell plating, in part attributed to ASTRA having operated in fresh water in the Baltic for her initial 22 years.

She is powered by a low/medium speed Mitsubishi main engine (M.E.) of 1,350 BHP, that is started by compressed air at 30 Bar, in the same manner as a merchant vessel. You do have to remember that ASTRA was built as strongly as was feasible for a vessel of her size and she is a big step up from the small scale electrics and battery starts commonly found on other vessels below 24 m.

The main engine goes through a 3:1 reduction gearbox, reducing the RPM at the propeller to 1/3 of that at the engine. The propeller shaft is approx. 12" in diameter and, on seeing it, you start to get a real sense of her strength and design capability for adverse weather. The propeller itself is a 4 bladed controllable pitch propeller (CPP) of 1.72 m in diameter and the rudder is a high performance Schilling rudder (+/- 64°) that can be operated either hydraulically or electrically.

The Schilling rudder, combined with a 100kw hydraulic bow thruster, provides incredible maneuverability for a vessel of ASTRA's size. Fitted with 4 conning positions from the navigation bridge, the vessel can be handled from Port, Centre and Starboard (looking forward) and the centerline aft when maneuvering astern.

Anyone that has ever owned a SAAB or VOLVO will have had the opportunity to appreciate Swedish engineering. A substantial hydraulic system is at the heart of the ship's systems on ASTRA and hydraulics power the following systems:- Bow Thruster- Anchor Windlass- Towing Winch- Stern Flap- Forward Crane- Aft Crane- Fire Pump

The key systems on board are provided with a back-up system that provides 100% redundancy, including:- Engines- Steering- Bilge Pumps- Air Compressors- Power Generation.

Built as a rescue vessel, ASTRA is incredibly stable and has no 'point of vanishing stability'. When fully laden, with all tanks full, she still has a GM of 0.98m.

In addition to air conditioning, ASTRA has substantial heating capability from her CTC boiler (that can run electrically or from diesel) and is very cozy onboard, with ample heating radiators and lots of hot water. Heating is one of the areas where her ice class comes in to play, with heating blowers in the foc'sle store and steering flats, hot water discharge points from the engine cooling discharge to deck if required for clearing ice (lancing) and, running just below the bulwarks, is a heating coil for clearing ice from the scuppers. This has stainless steel pipework, as is common for the majority of systems onboard.

During ASTRA's refit in 2017, aside from the work you might expect in a repair period, the following major additions were made:- Air conditioning in all areas- new Portuguese bridge- new Furuno navigational equipment- new 4 automatic rotating stabilizers- large additional battery banks (to be able to lie at anchor without auxiliaries)

- increased fuel capacity
- fresh water maker
- new oak cabin soles- new toilet and shower facility on the lower deck

With the new MagnusMaster rotating stabilizers fitted in Sep 2017, even in seas of 4-5 meters in height and it was remarked that "...this went largely unnoticed, with coffee cups staying firm on the table and the passengers able to get on with their normal activities. The vessel was only moving steady slightly up and down without rolling side to side".

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ASTRA's owner is a Master Mariner who has prepared her to an extent this broker has never seen aboard any yacht. She has my absolute highest recommendation. It has been a highlight of my career assisting with her purchase and now an honor to represent her.

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~ John Clayman ~

## Basic Information

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**Category:** trawler

**Sub Category:** Long Range Cruiser

**Model Year:** 1995

**Year Built:** 1995

**Country:** Spain

## Dimensions

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**LOA:** 76' 8" (23.35mm)

**LWL:** 69' 8" (21.21mm)

**LOD:** 76' 8" (23.35mm)

**Beam:** 21.75

**Min Draft:** 8' 3" (2.5mm)

**Max Draft:** 10' 6" (3.2mm)

## Speed, Capacities and Weight

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**Cruise Speed:** 8.4 Knots Kts. (10 MPH)

**Cruise Speed Range:** 5000

**Max Speed:** 13 Knots Kts. (15 MPH)

**Gross Tonnage:** 156 Pounds

**Water Capacity:** 1730 Gallons

**Holding Tank:** 264.17 Gal Gallons

**Fuel Capacity:** 11623.57 Gal Gallons

**Fuel Consumption:** 12.68 Gal Gallons

## Accommodations

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**Total Cabins:** 5

**Total Berths:** 9

**Sleeps:** 9

**Total Heads:** 2

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## Hull and Deck Information

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**Hull Material:** Steel

**Deck Material:** Steel

**Hull Configuration:** Displacement Ice  
Breaker Hull

**Hull Color:** Aristo Blue

**Hull Designer:** FK AB Marine Design

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## Engine Information

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**Engines:** 1

**Manufacturer:** MITSUBISHI

**Engine Type:** Inboard

**Fuel Type:** Diesel



# PHOTOS

**ASTRA in Tasman Sea Storm**



**ASTRA in shipyard**



**RIBS from Astern**



**Wheelhouse**



**Wheelhouse closeup**



**Radio desk and aft control station**



**Saloon view aft**



**Saloon and Galley**



**Saloon view fwd**



**Captain's cabin**



**Two forward double cabins**



**Port double cabin**



**Aft double cabin**



**View of three forward cabins**



**Accommodation deck head**



**Dry stores**



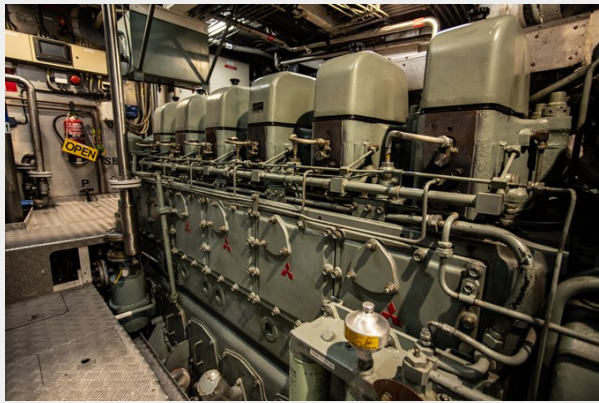
**Freezer and dry stores**



**1500 litre Freezer**



**Mitsubishi Main**



**Engine Room**



**Bilge Pumps and shaft generator**



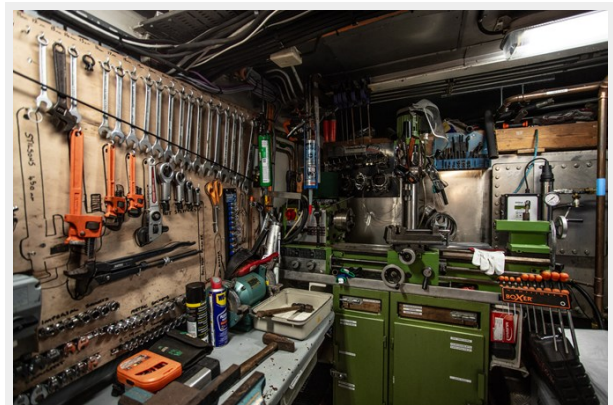
**Fuel Manifold**



**Fuel polisher**



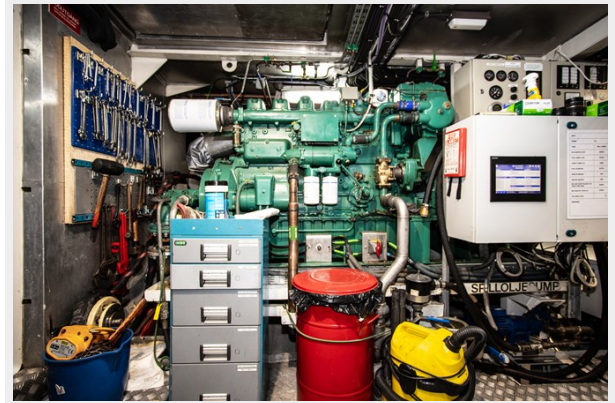
**Machine shop**



### New Onan and Electrical Control Panel



### Volvo Penta generator-



### Controllable Pitch Prop and Nozzle



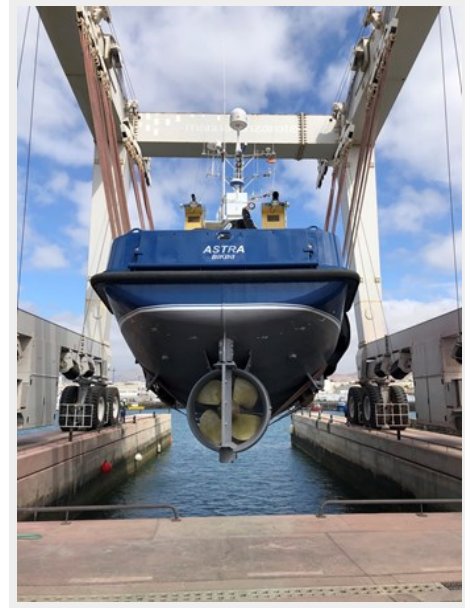
### Rotary vane axial flow steering gear



### Schilling Rudder



### Launching



### Wheelhouse mugs



# CONTACTS

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Andrey Shestakov, leading yacht broker of the sales department of Shestakov Yacht Sales Inc. Shestakov Yacht Sales Inc., the official representative of the Miami/Fort Lauderdale FL headquarters.

## Contact details

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## Telephones

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USA: +1(954)274-4435

## Office hours

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Monday – Saturday: **9:00 - 21:00** EDT

Sunday: **closed**

## Address

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