

## ENIGMA ASTRALIS — HEESEN YACHTS



**Builder:** HEESEN YACHTS

**Year Built:** 1993

**Model:** Motor Yacht

**Price:** PRICE ON APPLICATION

**Location:** Croatia

**LOA:** 91' 11" (28.00m)

**Beam:** 20' 5" (6.20m)

**Min Draft:** 7' 11" (2.40m)

**Max Draft:** 7' 11" (2.40m)

**Cruise Speed:** 28 Kts. (32 MPH)

**Max Speed:** 35 Kts. (40 MPH)

Our experienced yacht broker, Andrey Shestakov, will help you choose and buy a yacht that best suits your needs **ENIGMA ASTRALIS — HEESEN YACHTS** 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 **ENIGMA ASTRALIS — HEESEN YACHTS** 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

## Basic Information

Category: Motor Yacht	Model Year: 1993
Year Built: 1993	Refit Year: 2013
Country: Croatia	

## Dimensions

LOA: 91' 11" (28.00m)	Beam: 20' 5" (6.20m)
Min Draft: 7' 11" (2.40m)	Max Draft: 7' 11" (2.40m)

## Speed, Capacities and Weight

Cruise Speed: 28 Kts. (32 MPH)	Max Speed: 35 Kts. (40 MPH)
Gross Tonnage: 123 Pounds	Water Capacity: 713.2645404 Gallons
Fuel Capacity: 3962.58078 Gallons	

## Accommodations

Total Cabins: 3	Sleeps: 6
Captain Cabin: True	Crew Cabin: 2
Crew Berths: 4	

## Hull and Deck Information

<b>Hull Material:</b> Aluminum	<b>Deck Material:</b> Teak
<b>Hull Configuration:</b> Planing	<b>Exterior Designer:</b> PIETER BEELDSNIJDER
<b>Interior Designer:</b> PIETER BEELDSNIJDER	

## Engine Information

<b>Engines:</b> 2	<b>Manufacturer:</b> MTU
<b>Model:</b> 12V-396 BT94	<b>Fuel Type:</b> Diesel

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# DETAILED INFORMATION

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## Overview

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This HEESEN was originally built for a prominent American European family who used her only for short private holidays. She has seen no charter use and has always been fully crewed. The charm of this yacht inspired the second owner to undertake a cost what cost refit. The recent refit has covered new paint and decks, complete new high spec bridge, upgrades to the fly bridge, engineering refit, the main engines with only 2500 hours since new have been disassembled and rebuilt in accordance with manufactures age recommendations, W6. Built as a fast harbor to anchor yacht and with speeds to out run changes in weather she makes an ideal Mediterranean yacht, VAT paid and in absolute turnkey condition.

## Performance

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Maximum speed:        ± 35 knots @2000 rpm Cruising speed:        ± 28 knots @1750 rpm  
Economical speed:        ± 18 knots @1200 rpm

Range and Consumption: ±.646 NM at cruising speed:    ± 28 knots 650 l/hr both engines ± 830 NM at economic speed: ± 18 knots 325 l/hr both engines

**TANKAGE** Fuel: ± 15,000 Litres Fresh water: ± 2,700 Litres Grey water: ± 750 Litres Black water: ± 750 Litres Lubrication oil: ± 200 Litres

## Mechanical

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**MAIN ENGINES** Twin MTU type 12V-396 BT94 diesel engines, 1992 Continuous rating ± 2645 Hp each/ (1945 kW) Engines with 3x turbo chargers, inter cooling system with under and above exhaust system Separate bilge under main engines.

Main engines rebuilt on board W6 400 hrs on rebuild, main two stage exhaust valves replaced 2012

Last serviced April 2015

**MONITORING** By MTU, new digital instrumentation, displayed on the Nav Net 3D system 2013, the original CSI analogue system has been retained as back up located behind the new instrumentation panelling. Start and stop controls alarm at steering position, flying bridge and engine room.

**CONTROL SYSTEM** Electronic system in wheelhouse and Fly-bridge including bowthruster.

**GEARBOXES** ZF BW 465 hydraulic gearboxes, reduction 2.33 : 1 installed with separate oil

cooling heat exchangers and flexible couplings. Service 2013

**PROP SHAFT** ± 120 mm diam. stainless steel shaft. 4 blade bronze propellers **GENERATORS** 2 x 50 kW(at 1500 rpm) Onan 40 MCGCB generators in sound shield box, driven by Cummins diesels. Major Service 2013, new injectors, governors, replaced all hoses, fuel pump. Start and stop controls at engine room. Automatic stop when water oil overload alarm. Generator engines last serviced 2015

**AIR-CONDITIONING** Cruisair WTDAH 120 EA & HEATING 2x compressor reverse cycle system containing: Hot Cold air ventilation, individual climate controlled accommodation fan coils. System flushed controlled for leaks, new starter motors, fan coils cleaned and serviced, selection panels replaced, spare on board 2013

**HYDROPACKS** 1x Installed in the engine room for bowthruster, driven by PTO STB engine. 1x for stabilizers, driven by PTO port engine. All serviced 2013

**BOWTHRUSTER** HRP Hydraulic, wheelhouse, fly-bridge joystick controls, fully serviced 2013

**TRIM TAPS** Vosper active trim tabs, stern mounted type, a double system, firstly up to speeds of 20kts gyro controlled, at speeds above 20kts working as a trim function. This system has been up graded to now provide roll - pitch and yaw, previously (roll & pitch) A new Gyro was installed as well as a complete new Naiad Dynamics software / cables installed, sourced from USA / UK 2013. Driven by PTO port gear box Tank and power pack major service 2013

**STEERING GEAR** Hydraulic system two pump system, 380V and 24V motors mounted in lazarette, controls at bridge and fly bridge. Serviced 2013 Emergency wheel in lazarette.

## System

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**FUEL SYSTEM** Three Single Racor type fuel filters fitted with water sensors 2013, and two main engine MTU filters, the generators have two fuel filters. Two fuel electric transfer pumps with capacity meter, with manifold between tanks and main engines. Fuel window to observe fuel being bunkered.

**WATER SYSTEM** Fresh water; 24V and 220V electric heavy-duty pumps, with pressure tank. Hotwater system by 2x15 litre boilers, electric heating system. Hot/Cold water shower at bathing platform. Watermaker HEM, ± 150 litres p/hr, positioned in Lazarete. Fully serviced by HEM dealers, new membrane and circulation pump 2014

**SEWAGE SYSTEM** Black water; ORCA IIA system, major overhaul 2013, black water tank with heavy duty electric pump. Direct overboard discharge system, pumps replaced 2013 Electric fresh water flush toilets all toilets removed from yacht and rebuilt, Grey water; Grey water tank with electric pump. Direct overboard discharge system, opened and cleaned 2013 pump replaced 2013

**BILGE SYSTEM** 1x master 380V pump, 1x manual pump, 1x pump from stb main engine PTO. Manually controlled. Manifold for bilge sections, direct overboard exchangeable by-pass back-up system with deckwash/firefighting pump. All pumps replaced, manual pump rebuilt

**DECKWASH & FIREFIGHTING SYSTEM** Exchangeable by-pass back-up system with bilge system. Sea water system with four outlets, two on midships one fore and aft deck with hose. Pump replaced 2013

**VENTILATION** Heavy duty mechanical engine room ventilation system with fire shutters. 380V system, induction and extraction system. System rebuilt 2013

**ELECTRICAL SYSTEM** Professional electrical installation built by Tijssen Electric, Holland. Main panel including fuse-breaker switches and indication control lamps in engine room and control panel with fuse-breaker switches and control lamps at steering position in wheelhouse. Voltage Ampere meters and low voltage alarm, charge discharge display. 220V sockets. Voltage 24 V DC. 220V, 380V-50Hz AC. with reverse polarity indication. Batteries 2 x 4 12V main engine start sets, each set consisting of four batteries Exide Heavy closed cell stowed in seaworthy boxes in engine room. 2012 2 x 2 12V generator start sets, each set consisting of two batteries Varta closed cell, stowed in seaworthy boxes in engine room. 2012 1 x 24V service set, Excite pro consisting of eight batteries, stowed in seaworthy boxes in engine room. 2x 24V emergency set for VHF SSB, consisting of one battery stowed in seaworthy box in wheelhouse. Emergency By-pass switch for start batteries.

Chargers: 1 x 24V make Mastervolt automatic charger for service set replaced 2012

Shore power: Shore power intake 380V in aft complete with cable. Ship shore transformer in lazarete.

Lighting: Interior lights 24V- 220V including halogen spots, TL-lamps in engine room All deck lights LED, with aft deck and stair lights equipped with dimmers 2013

## Deck Equipment

**ANCHOR WINCH** 1 x Single Nurnberg 23.46 Anchor winch 9.5Kw hydraulic capstan with chain wash. Operated by push button box on portable cable. 1 x Steen 100Kg steel anchor, stowed in bow steel hull-shell pocket. ± 120 m galvanised steel anchor chain. Major over haul 2013

**CAPSTANS** Vertical on anchor winch. Two vertical electric capstans on aft deck, push-button control. Winches overhauled 2013

**TENDER CRANE** One max load ±900 KG, electric, the unit has been rebuilt 2013 and has new remote control unit.

**COVERS & CUSHIONS** Tarpaulins for deck gear, fly bridge control and seated areas.

Cushions For Fly-bridge, aftdeck seats/deck chairs.

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**OTHERS** Facility to mount fishing chair on transom bathing platform, fishing chair available.

Fenders 8 x fender one large stern fender.

## Exclusions

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Owner's personal belongings.

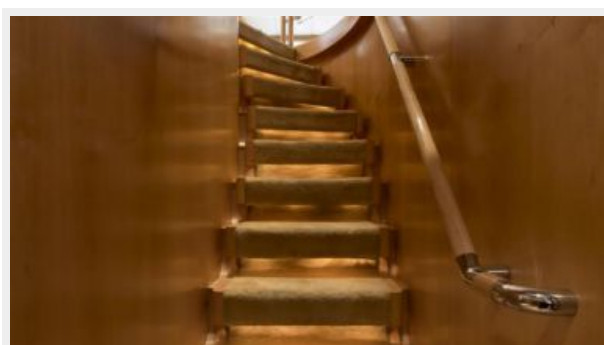
## Disclaimer

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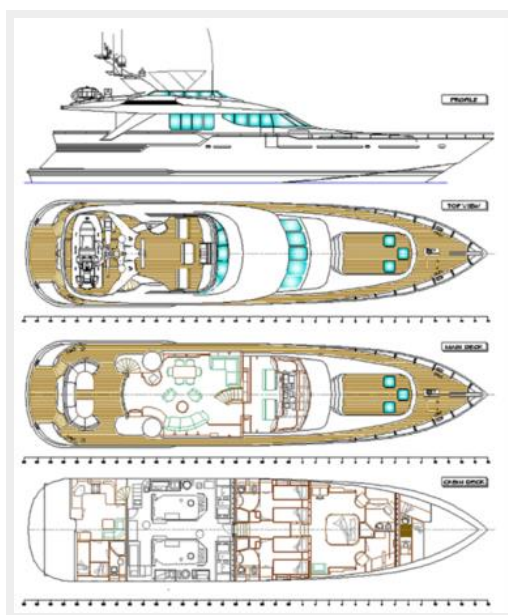


# PHOTOS









# 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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## Office hours

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

Sunday: **closed**

## Address

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