

EAEMDR
Att. Mr. Bozhidar Yankov
Director of European Programs, Projects and Public Relations Department
Executive Agency "Exploration and Maintenance of the Danube River"
Bulgaria, Ruse-7000
6 Slavyanski blvd.

Amsterdam (Holland), 2015

Ref: **Offer Fast Survey-boat 7.50 & 8.50**

Dear Mr. Yankov,

Thank you for your interest and inquiry on our Fast Survey Boats 7.50 & 8.50.

Please find all information and our offer described below.

Please note:

- Our texting below contains the 'standard' version for the light and compact 7.50 version.
- The additional costs for the heavier duty 8.50 version are indicated separately in the price list.
- Several standard options are available, which are listed in the price list.
- Customized options of your specific choice can be discussed.
- This offer contains the vessel without pre-installed survey equipment. It will be our pleasure to assist you on the hull installation of your own new or existing survey equipment.
- Alternatively, we can have our dedicated survey partner Stema Systems BV assist you with the selection and installation of your new equipment for this vessel.

It will be our pleasure to design and build the vessel described above to your liking.
DutchWorkboats welcomes our collaboration with pleasure and confidence.

If you have any questions, please do not hesitate to contact us.

Best regards,
DutchWorkboats B.V.

Rob Voskuil
Director

Key features Fast Surveyboat 7.50 8.50:

- Plug & Play: a turn-key survey vessel for inland and coastal surveying
- Fast surveys up to 30km/h, comfortable transfers up to 50 km/h (*)
- 7.50 – Light & Quick - easy trailering or craning at 2700kg
- 8.50 – Heavier Duty - truck transportable or craning at 3200kg

Summary: Survey larger areas in more comfort & less time

A trailerable, fast and comfortable aluminium cabin boat, at your specifications delivered with built-in and fully calibrated survey equipment, single- and/or multi-beam.

With pre-installed survey equipment, this boat is a swift turn-key survey machine for inland and coastal surveying, ready for her tasks. Crews reach and survey larger areas in less time. The permanently calibrated survey gear allows them to quickly start working.

Design: optimized for speed, control and good data results

The Fast Survey Boats by DutchWorkboats are designed for both high and low speed surveying. Hull shape, stern drive and trim tabs work together to get the best possible water flow, level ride and controlled manoeuvres in all operational speed areas, essential for good surveying results (*).

The design has a spacious and comfortable cabin, with lots of workspace for 2-4 crew in good comfort. The interior design aims at operational efficiency and weight saving, and takes good care of the comfort of the crew at the same time. Several options are available to optimize comfort and operation.

Aft, you will find easy access to two moon pools, available for fixed mounting of hydrographic sensors, like multi-beam and/or single-beam or ADCP.

Deployment: Easily transportable for a great commercial scope

This boat is quickly deployed in various areas. Its lightweight aluminium body makes the boat both easily transportable on a standard road trailer, truck or liftable onto a dredging mother ship, thus providing a great commercial scope.

Its top speeds of 45 & 50km/h make for quick and easy transfers to the survey locations, its survey speeds up to 30 km/h make for efficient and quick coverage of large areas(*).

*** Please note:**

- The mentioned speeds are valid up to max sea state 2 and are dependant on specific sailing- and weather conditions and on proper boat handling by an experienced crew.
- Good data results are dependant on multiple factors, including external factors like appropriate calibration of the survey equipment, specific wave heights and conditions and boat handling.
- The vessel shall be kept on shore or on a mother-ship at all times when not in a survey operation. It shall not be moored for any extended period next to large steel surfaces, to prevent corrosion issues.

Fast Survey boat 7.50 - specifications:

LOA	7.85	m
BOA	2,90	m
Draft	0,65	m
Construction material hull	4-5mm seagrade Aluminium EN-AW 5083 / H111	
Propulsion	Volvo-Penta D3-DPS aquamatic 170 HP	
Dry weight	Approx. 2700	kg
Speed WOT	45	km/h
Range	150	nm
Fuel tank	150	liter
Capacity	3	crew

Fast Survey boat 8.50 - specifications:

LOA	8.35	m
BOA	2,90	m
Draft	0,65	m
Construction material hull	4-6 mm seagrade Aluminium EN-AW 5083 / H111	
Propulsion	Volvo-Penta D4-DPH aquamatic 225 HP	
Dry weight	Approx. 3200	kg
Speed WOT	50	km/h
Range	120	nm
Fuel tank	150	liter
Capacity	2-4	crew

Hull:

- Chine hull with V-bottom and integrated spray rails built of seawater resistant aluminum, quality EN AW 5083 (H111).
- Constructive plates thicknesses 4 and 5 mm. Optional 6mm plates for hull.
- The vessel comes unpainted as standard. Delivery with painting & anti-fouling and company logo is optional.
- Hull built with sufficient longitudinal and transverse frames.
- Two moon pools aft of cabin.
- PE tube fenders.
- Self-draining deck.
- Four lifting eyes integrated in bollards.
- Bow anchor locker.
- Stern collision beam.
- Folding top mast.

Electrical:

- 12V system, isolated and separated. fuse boxes for 12 volt dc and 230 volt ac
- Charger and shore mains are separated by a separation transformer to reduce galvanic corrosion
- Battery bank consisting of two Zenith maintenance free batteries: one for engine 800 CCU, one deep cycle auxiliary 260 Ah
- Navigation lights: two LED sidelights and one LED masthead light on detachable pole
- Two orange flash lights
- Searchlight: on roof, manually operated
- 2 deck lights, one at bow and one at stern
- 4 LED cabin lights
- Victron Energy battery charger/inverter 230V2000VA/1600W/ 80 amps
- Double automatic bilge pump installation, one engine room, one cabin area
- Secured two-wire electrical system completely implemented, numbered and placed in protective sleeves. Fuse box in console
- Main electrical components are bus connected and can be monitored on a led screen. It enables full control over charger and inverter current and battery capacity.

Cabin:

- Comfortably isolated aluminum cabin.
- Walls and ceiling finished with plywood carpentry, floor finished with rubber non slip carpet.
- One suspension helmsman seat behind dashboard.
- Two suspension seats behind work desk for surveyor.
- Cabin heat exchanger/ heater.
- Roof window/ escape hatch.
- Door with lock, two toggles and windows.
- Two windscreen wipers at front window.
- 19 inch computer cabinet for survey computers under desk.

Propulsion:

- Engines:
 - FSB 7.50 - 2 pole isolated, suspension-mounted Volvo-Penta D3 170 hp with DPS stainless Duoprop sterndrive. Engine is placed in isolated engine box. This is the compact and light weight engine of choice for this light, trailerable version of the FSB.
 - FSB 8.50 - 2 pole isolated, suspension-mounted Volvo-Penta D4 225 hp with DPH stainless Duoprop sterndrive. The D4 with DPH is more of a working horse engine, producing lots of torque. Engine is placed in isolated engine box.
- Engine controls: EVC-E electronic vessel control.
- Engine display: 2,5" LCD panel.
- Hydraulic steering.
- Hydraulic trim on stern drive.
- Electronic Lenco trim tabs.
- Fuel tank: the vessel will be equipped with a diesel tank with a capacity of approximately 150 liter. Optional extra tank available for larger range. Diesel filter with water separator installed.

Equipment:

- Simrad RS35 VHF/AIS radio receiver.
- Simrad NSS7 GPS plotter screen.
- Fire extinguisher.
- First aid kit.
- Anchor with leaded anchor line.
- 3 life vests.

Pricing:

STANDARD VERSION: FSB 7.50 (Volvo Penta D3 – 170HP)

Complete vessel ready to use as stated above, excl VAT	€ 165.750,-
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EXTENDED VERSION: FSB 8.50 (VOLVO PENTA D4 – 225HP)

<p>Hull extension 0.5m, for extra deck space between engine box and cabin, including redesign of after hull part and inner frame structure.</p> <p>Available engine types: -Volvo Penta D4-225hp with DPH work sterndrive, including enlarged engine bay and foundations. -Yanmar 4LHA STP 220hp mechanical engine (suited for poorer fuel qualities), combined with V-drive propulsion and rudder.</p> <p>Complete vessel ready to use, excl VAT</p>	€ 176.350,-
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Standard options pricing:

(7.50 version only) Volvo Penta D3-220hp engine instead of 170hp	Surcharge over standard D3-170HP engine: € 3.500,-
Electric bow thruster	€ 4.950,-
Spares & Consumables for 2 years @ 4000 hours (starter motor, alternator, belt, impeller, fuel filter, oil filter, air filters)	€ 8.000,-
Block heater for engine for arctic environments (in addition to installed standard Webasto cabin heater)	€ 2.400,-
A-frame with towing lifting eye for max 100kg, excluding winch & cable	€ 2.600,-
Mounting bracket at bow for sub bottom profiler	€ 1.950,-
Rack for tow fish storage on top of engine box	€ 800,-
Extra grab rails on cabin roof + centered bow support	€ 600,-
Road trailer, suited for the standard version of these vessels, Twin or tripple axles, LED lights, electronic winch, spare wheel	FSB 7.50 – € 8.800,- FSB 8.50 - € 11.500

Double glazing windows, heat reflecting	€ 1.500,-
Sand blasting, anti-fouling, paint colors to client's specifications	€ 10.500,-
Air-conditioning high cap. (12.000 Btu)	€ 7.800,-
Simrad NIAS 400 AIS transponder	€ 1.200,-
Larger GPS plotterscreen Simrad NSS9	€ 1.600,-
Simrad Radar 4G broadband	€ 2.900,-
Simrad AP70 autopilot with RU80 joystick control	€ 5.100,-
Victron Energy multiplus 3000VA inverter/charger	€ 900,-
Classification: -MCA Cat 3 (for max 20nm offshore) classification - Other classification, depending on specifications ! Necessary changes to design, construction and equipment of the vessel, following classification are not included in classification prices and will be invoiced separately !	€ 6.300,- On your specified request
Safety materials	On your specified request

Terms & Conditions:

- Delivery time 12-16 weeks depending on options.
- This offer is valid for 3 months after offer date.
- All pricing ex VAT.
- Delivery is ex-works Holland.
- Terms on delivery to your location to be agreed on.
- Terms for engineering and building: standard NJI terms (Dutch shipbuilding terms).
- By accepting this offer client allows DutchWorkboats to produce photo- and film footage of the boat and use this for commercial- and marketing purposes.

Payment schedule:

Term	Percentage of total amount	Description	Payable
1	40%	At order	Directly upon our order confirmation
2	30%	After hull completion	Net 7 days after invoice date
3	20%	Before sea trials	Net 7 days after invoice date
4	10%	Before shipping	Directly upon our invoice

Warranty statement:

- One year warranty on hull construction by DutchWorkboats BV. Hull warranty only covers constructive issues in the hull parts. Claims arising from normal wear and tear are excluded.
- The vessel shall be kept on shore or on a mother-ship when not in a survey operation. It shall not be moored for any extended period next to large steel surfaces, to prevent corrosion issues. Erosion on anodes should be checked regularly. Corrosion issues are fully excluded from warranty claims.
- Regular OEM/Factory warranty on engine and installed main components, covering only replacement of parts or components if a claim on a component is allowed by the OEM. Warranty on engine limited to a maximum of 500 engine hours.

Summary

With the Fast Survey Boat 7.50 or 8.50 you will have a powerful tool for easy and fast surveys and compact crew transfers at your projects.

It will be our pleasure to design and build the vessel described above to your liking. DutchWorkboats welcomes our collaboration with pleasure and confidence.

We trust to have made you an interesting offer and are looking forward to your reactions.

DutchWorkboats B.V.

Rob Voskuil (M.D.)
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