

M.S. POTVIS

Survey vessel M.S. Potvis

M.S. Potvis is Aqua Vision's survey vessel for year-round inland and coastal applications. Operational in the Netherlands within **48 hours**.



Features

M.S. POTVIS is a multipurpose work boat specially equipped for hydrographic measurements in **ivers, channels, lakes and coastal areas**. In the **closed heated cabin** are seats for the skipper, surveyor and three extra person. There are two cockpit tables for **survey and navigation monitors**. There is 24 VDC and a Victron inverter for 220 VAC (3 KVA) power supply available for the survey equipment and additional a 220 VAC Generator (17 KVA).

Equipment

Standard equipment includes a high accuracy RTK **dGPS** system, pitch, roll and heading sensors, echo sounder and an Acoustic Doppler Current Profiler (**ADCP**). Moreover, there is a **winch** to lower auxiliary sensors and sampling equipment.

Applications

With a small draft **M.S. Potvis** easily reaches **shallow parts of lakes, rivers and coastal areas**. We are able to operate the vessel anywhere in the Netherlands within 48 hours.

Survey equipment

- **RTK dGPS / GLONASS** real-time kinematics for high accuracy positioning, model Septentrio AsteRx2_DR GNSS
- Octans GIV **gyrocompass** and motion sensor (IXSEA)
- **ADCP** for measurement of currents, discharge and sediment concentration, model 600 or 1200 kHz Workhorse Monitor (Teledyne RD Instruments)
- EA400 **Echo sounder** with 38/200 kHz transducer for bathymetric surveys, (Kongsberg)
- R2Sonic 2020 Dual-Head **Multi-Beam** (R2Sonic)
- Multi-parameter probe for measurement of turbidity, sediment concentration, salinity, temperature and depth, model OBS-3A (Campbell Scientific, Inc.)
- Water sampling pump
- Sediment sampling equipment

Safety equipment

- VHF maritime radio-telephone, call name PI7639
- Extra handheld VHF maritime radio-telephone (auxiliary power)
- Raymarine radar with AIS class-B transponder
- Navigation lights
- Safety beacon light
- Searchlight
- Windshield wiper
- Automatic Bilge pump
- Fire extinguisher
- Life jackets
- Safety buoy
- Fifi/rescue pump

Specifications

- | | |
|------------------------|---|
| • Shipyard | Damen |
| • Model | Stan Launch 43 |
| • Year of construction | 1977, The Netherlands |
| • Dimensions | 12,65 x 3,64 x 1,67 mtr |
| • Draft | 1,10 mtr |
| • Air Draft | 3,65 mtr (lowered mast) |
| • Weight | 20 Ton |
| • Hull material | steel |
| • Passenger capacity | Day accommodation, galley, toilet. |
| • Main engine | DAF, type 615-MK (built 1981)
96 bhp at 1900 rpm |
| • Propulsion | one fixed pitch propeller |
| • Fuel capacity | 1200 ltr |
| • Maximum speed | 8 knots |
| • Victron | 24 volt/ 3 kVA (survey equipment) |
| • Aux. Engines | Mitsubishi, type S-2-B Samofa |
| • Output | 17 kVA, 50 Hz, 230/400 V |
| • Deck equipment | davit 75 kgs
Hiab 017T hydraulic crane (1,7 tm – max. 4,2 m)
anchor winch
towing hook |
| • Tank capacities | fuel oil - 1,2 m ³ fresh water - 0,6 m ³ dirty oil – 0,2 m ³ |
| • Free deck area | 16 m ² |
| • Class | National class (Cat. B WS8 WH4) |
| • Tonnage | GRT 20 tons |
| • Displacement | ± 20 tons with empty tanks |
| • Gearbox | Twin Disc, type MG 506 |