

M.S. BRUINVIS

Survey vessel M.S. Bruinvis

M.S. Bruinvis is Aqua Vision's trailerable survey vessel for year-round inland applications. Operational in the Netherlands within **24 hours**.



Features

M.S. Bruinvis is an aluminum workboat specially equipped for hydrographic measurements. In the closed heated cabin are seats for the skipper, surveyor and one extra person. There are two cockpit tables for survey and navigation monitors. There is 12 VDC and a Victron inverter for 220 VAC power supply and battery charging.

Equipment

The vessel is standard equipped with an high accuracy **dGPS** system, pitch, roll and heading sensors, **echosounder** and an *Acoustic Doppler Current Profiler (ADCP)*. Moreover, there is a hand winch to lower auxiliary sensors and sampling equipment.

Applications

The relatively small draft of **M.S. Bruinvis** makes it easy to reach **shallow parts of lakes** and rivers such as forelands. Moreover, the vessel is trailerable and therefore quick to launch in a large area. We are able to operate the vessel at any place in the Netherlands within 24 hours.

Survey equipment

- **RTK dGPS / GLONASS** real-time kinematics for high accuracy positioning, model Septentrio AsteRx2eH GNSS with dual antenna for heading and roll.
- **ADCP** for measurement of currents, discharge and sediment concentration, model 600 or 1200 kHz Workhorse Monitor (Teledyne RD Instruments)
- Echosounder with 200 kHz transducer for bathymetric surveys, model Bathy 500 (Syqwest)
- 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 PB8520
- Extra handheld VHF maritime radio-telephone (auxiliary power)
- Raymarine AIS class-B transponder
- Tri-Lens radar reflector
- Navigation lights
- Safety beacon light
- Searchlight
- Rain-draining aft
- Windshield wiper
- Bilge pump
- Fire extinguisher
- Life jackets
- Safety buoy

Specifications

- Shipyard: *Zwagers Boating*
- Model: Alumax 600 PB
- Year of construction: 2010

- LOA: 6,90 meters
- BOA: 2,15 meters
- Draft: 0,35 meters
- Min. freeboard: 0,70 meters
- Weight: 1000 kg

- Main engine 100 hp high trust outboard
- Backup engine 9,9 hp high trust outboard
- Fuel capacity 100 ltr
- Maximum speed: 20 knots

- Power: 12 volt battery for starter engine
- 12 volt Gel batteries for 12 VDC and 220 VAC board power (2kW)