

# M.S. GRIEND

## Survey vessel M.S. Griend

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



### Features

**M.S. Griend** is a Finnish, walk-through, multipurpose boat 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 a 12 VDC and a Mastervolt inverter for 220 VAC power supply and battery charging.

### Equipment

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

### Applications

With a small draft **M.S. Griend** easily reaches **shallow parts of lakes and rivers**. The vessel is **trailerable** and therefore quick to launch in a large area. We are able to operate the vessel anywhere in the Netherlands within 24 hours.

## Survey equipment

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- **RTK dGPS / GLONASS** real-time kinematics for high accuracy positioning, model Septentrio AsteRx2\_DR GNSS
- **Dual antenna dGPS** for positioning, pitch, roll and heading, model Thales 3011
- **ADCP** for measurement of currents, discharge and sediment concentration, model 600 or 1200 kHz Workhorse Monitor (Teledyne RD Instruments)
- **Echo sounder** 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

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- VHF maritime radio-telephone, call name PD4217
- Extra handheld VHF maritime radio-telephone (auxiliary power)
- Tri-Lens radar reflector
- Navigation lights
- Safety beacon light
- Searchlight
- Rain-draining cockpit fore and aft
- Windshield wiper
- Bilge pump
- Fire extinguisher
- Life jackets
- Safety buoy

## Specifications

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- Shipyard: Bella Boats
- Model: 572C
- Year of construction: 1999
  
- LOA: 6 meters
- BOA: 2,1 meters
- Draft: 0,35 meters
- Weight: 1000 kg
  
- Main engine: 50 hp high trust outboard
- Backup engine: 9,9 hp high trust outboard
- Fuel capacity: 58 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)