



## BULLETIN

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MASB 13-89

22 February 1989

### Remote Controlled Minesweeper

**Background.** KARLSKRONAVARVET AB, a Swedish firm, has developed a remotely controlled minesweeper device (called SAM) for the sweeping of both magnetic and acoustic mines. The device is built on a catamaran-type hull with a diesel-driven rudder-propeller and is fully equipped with power supply, sweeping equipment, navigational, and control systems. The system (see Figure 1) is designed to be operated in an unmanned mode from a nearby lead ship.

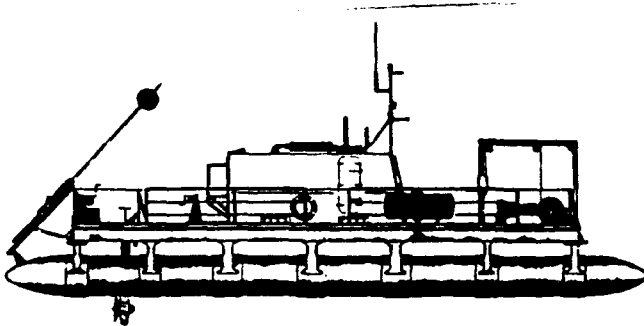


Figure 1. The SAM remote controlled minesweeper.

**Operations.** The SAM performs the following operational functions:

- Magnetic minesweeping by coils integrated in the hull
- Acoustic minesweeping by a towed acoustic transmitter
- Clearing the way to get higher security for minesweepers and mine hunters
- Monitoring

**Propulsion machinery.** The propulsion machinery consists of a Volvo Penta TAMD 70 diesel engine with a continuous output of about 159 kW at 2200 rpm connected to a Schottel-type propeller

unit via reversing gear, couplings, and shaft. The diesel engine and the reversing gear are mounted onto the main platform. The machinery is normally remotely controlled from another vessel but can also be controlled at the engine or from the operating platform on board.

**Remote Control System.** The SAM is fitted with a remote control system, developed by KARLSKRONAVARVET. It fulfills the following major functions:

- Diesel engine control
- Steering control
- Minesweeping equipment control
- Monitoring

#### Technical Specifications

|  |                     |
|--|---------------------|
| Length   | 18.0 meters         |
| Beam   | 6.2 meters          |
| Draft  | 1.6 meters          |
| Displacement   | 19.7 m <sup>3</sup> |
| Speed  | 8 knots             |
| Range  | 330 nm at 7 knots   |
| Engine   | 150 kW at 2200 rpm  |
| Platform and superstructure in aluminum. Schottel type propeller |                     |

For further information contact KARLSKRONAVARVET AB, S-371 82 Karlskrona, Sweden. Telephone 46-455 34100.

ONREUR point of contact is CDR John P. Simpson, Environmental Systems and Oceanography Officer.

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