SEARCH AND RESCUE 1906
EXECUTIVE SUMMARY
A RELIABLE AND VERSATILE PLATFORM
Already serving the seas for decades, the Damen Search and Rescue vessel designs are based on experience and customer feedback.

The ever continuing balance between comfort, speed, operability, operational efficiency and flexibility is the basis for the Search and Rescue range.

**Main tasks:**
- Search and rescue operations
- Carrying survivors
- Firefighting and technical assistance for small craft
Improved sea keeping performance
- Improved safety
- Improved comfort
- Reduced fuel consumption

Five years of research with:
- Delft University of Technology
- Royal Netherlands Navy
- Maritime Research Institute Netherlands
- US Coast Guard

Compared to conventional ships
- Peak accelerations 50% to 75% less
- Flat water resistance 10-15% less
- Resistance in waves 40% less

“Sea Axe” ships:
- >150 in service
- Many vessels under construction on several yards in the world
- Proven design in all conditions
### Hull:
- Length overall: 19.5 m
- Beam overall: 6.5 m
- Depth at sides: 1.9 m
- Draught: 1.1 m
- Hull material: Aluminium
- Superstructure: FRP

### Machinery:
- Main engines: 2x MTU
- Propulsion: 2x Waterjets
- Total power: Up to 1,790 bkW

### Performance:
- Speed: Up to 30.0 kn
- Range: Up to 330 nm

### Capacities:
- Crew: Up to 6
- Survivors: Up to 42
- Fuel Oil: 4.9 m³
- Fresh Water: 0.1 m³
- Sewage: 0.1 m³
CAPACITIES

Main deck

Lower deck

Waterjet room
Engine rooms SB & PS
Accommodation
Reduced height
Forepeak/Store

SEA AXE
DAMEN
- Engine keeps running up to 30 seconds upside-down
- Self righting within seconds
- Seat belts and harnesses for crew safety
- Separated engine rooms
- Shock absorbing seats
- Main engines: 2x MTU 8V2000M84L 1D Rating @ 895 bkW
- Gearbox: 2x Reintjes ZF 2000
- Generator sets: 1x 9.5 ekW – 9.5 kVA
- Network: 24V DC, 240V 50 Hz AC
**Console:**
- Propulsion and steering control
- Searchlight
- Radar
- Chart plotter
- ECDIS
- GPS
- AIS
- Magnetic compass
- Echo sounder

**Optional:**
- Autopilot
- Thermal camera
- External communication GMDSS A1/A2
Optional:
- Crew cabin for two persons
- Settee
- Pantry
- Sanitary space
- Survivor room
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