



UNDERWATER DEFENCE

ASTERIA

NEW GENERATION SMART MULTI-INFLUENCE SEA MINE

ASTERIA represents the latest generation of multi-influence sea mines, capable to fulfil the most recent operational requirements.

The mine can be deployed from surface vessels, cargo planes and submarines (either from torpedo tubes), providing flexible operational support to any defence strategy.

ASTERIA can be remotely controlled by means of a unique bi-directional acoustic link, enhancing its versatility for the safeguard of harbours, straits, ports and critical areas.

The multi-sensor architecture together with user friendly smart processing and decision logic provides ASTERIA with an exceptional target selectivity and a remarkable resistance against modern countermeasures, including Mine Jamming.

ASTERIA is designed to be modular, offering the possibility to tailor the size of the main warhead to the User operational requirements.

Special features make the mine resistant to possible tampering attempts.

MAIN FEATURES

- Compliant with the most stringent safety standards
- Smart logic
- User friendly programming
- Resistant to countermeasures
- Remote control (optional)
- Long life in water

INTEGRATED LOGISTIC SUPPORT

- User technical manuals
- Training
- Sea trial advice and support
- Technical assistance
- Spare parts

SAFETY STANDARD

The Asteria is designed in accordance with the highest safety standards, including STANAG 4187 (Fuzing System) and STANAG 4439 (Insensitive Munition).

VARIANTS: LIVE / EXERCISE / PRACTICE / CUT AWAY



Target Detection Device (TDD)



Programming and testing



Exercise version



Exercise version during training at sea

SENSORS AND PROCESSED INFLUENCES

- Acoustic LF/MF: Hydrophone
- Acoustic HF: Hydrophone
- Magnetic LF/MF: Tri-axis fluxgate magnetometer
- Pressure: Hydrophone
- Seismic Vibration: Accelerometer
- Underwater Electric Field: UEP / ELFE
- Light Presence: Optical

Special algorithms designed to compensate the background acoustic noise, the wave motion and the mine position on the seabed ensure the highest target kill probability in any environment.

MAIN ACCESSORIES

- Programming and test equipment
- Portable pre-setter
- Handling special tools
- Maintenance special tools and jigs
- Deployment accessories
- Special accessories are available for the exercise and practice variants
- Mine Warfare Simulator software

MAIN TECHNICAL CHARACTERISTICS

Dimensions

| | |
|----------|---------------|
| Diameter | 533 mm |
| Length | up to 3150 mm |

Weight

1050 kg (max)

Explosive

| | |
|------|------------------------|
| Type | PBXN-111 (MIL-E-82902) |
| NEQ | up to 650 kg |

Hazard Classification

UN 0137; 1.1D

Operational Characteristics

| | |
|-------------------|------------------------|
| Operational depth | 5 m (min) |
| | 300 m (max) |
| Arming delay | programmable |
| Life in water | 1 years (programmable) |
| Temperature | -2° C to 36° C |

Shelf Life

> 20 years

RWM Italia spa

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