



# UNDERWATER DEFENCE

## MURENA

### ADVANCED MULTI INFLUENCE SEA MINE

Murena is a state-of-the-art, multi influence sea mine, designed to effectively engage a wide range of targets. The mine can be deployed from surface vessels, cargo planes and submarines both from torpedo tubes and mine belts, providing flexible operational support to any defence strategy. The optional cable remote control increases the operational flexibility when harbours, straits or port defence is required.

The precision reached in target classification and localization makes Murena extremely effective against a wide range of target and resistant against mine countermeasures. The mine unique logic offers to the operator an exceptional level of flexibility and versatility in defining the mine program for the mission.

Special features make the mine resistant to possible tampering attempts.

#### SAFETY STANDARD

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

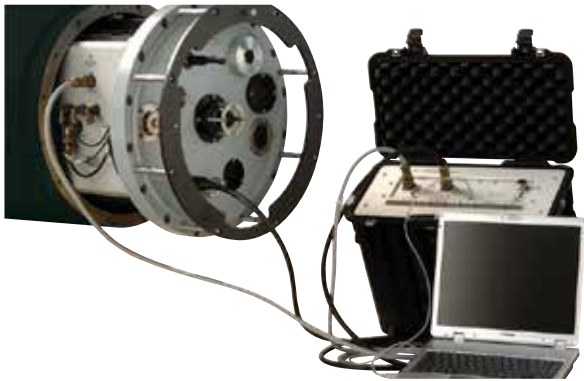
#### MAIN FEATURES

- In service with many Naval Forces
- Compliant with the most stringent safety standards
- Exceptional flexibility and versatility in programming
- Resistant to countermeasures
- Long life in water

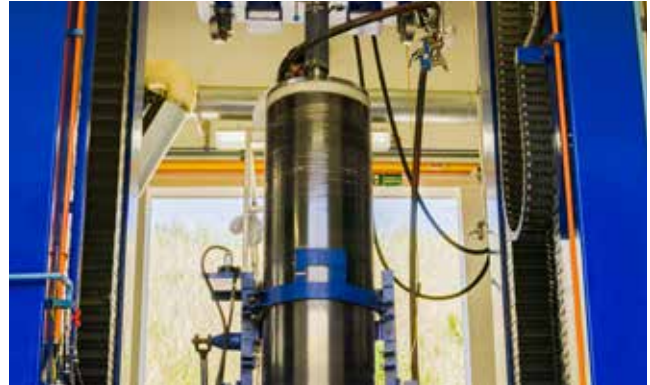
#### MAIN ACCESSORIES

- Programming and test equipment
- Portable pre-setter
- Handling special tools
- Maintenance special tools and jigs
- Deployment accessories (rail launching trolley, parachute)
- Special accessories are available for the exercise and practice variants
- Mine Warfare Simulator software

**VARIANTS:** LIVE / EXERCISE / PRACTICE / CUT-AWAY



MURENA TDD (Target Detection Device) programming and testing



MURENA warhead filling with PBXN-111



Packaged MURENA mines ready for shipment



MURENA exercise variant during a sea trial

## SENSORS AND PROCESSED INFLUENCES

- Acoustic: Hydrophone
- Magnetic: Tri-axis fluxgate magnetometer
- Pressure: Hydrophone

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.

## INTEGRATED LOGISTIC SUPPORT

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

### MAIN TECHNICAL CHARACTERISTICS

#### Dimensions

Diameter	540 mm
Length	up to 3150 mm

#### Weight

1095 kg (max)

#### Explosive

Type	PBXN-111 (MIL-E-82902)
NEQ	up to 640 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

*The information may be subject to modification without prior notice.*

### RWM Italia spa

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