

# Piovera

## Limpet mine



### System Description

PIOVRA is a modern limpet mine for combat divers. It is based on the latest operational requirements and compliant with the most stringent safety standards. Each PIOVRA is provided with several attachment mechanisms (magnets, suction plugs, rope with hook, silent nail shooters) to allow easy attachment to steel, GRP and wooden targets. The final combination of the various attachment mechanisms is chosen by the diver during mission preparation. The design of the electronic time fuze is based on an electro-mechanical out-of-line safety and arming unit, compliant with the requirements of STANAG 4497. The arming delay is factory set.

The fire delay is manually set by the diver and can be changed at any time (in air and in water) until the arming sequence has started. The correct functioning of the electronic time fuze can be tested at any time (in air and in water) by means of an inbuilt test. No test equipment is required. PIOVRA complies with the requirements of STANAG 4439 for insensitive munitions. To increase the damage and the operational flexibility, several PIOVRA can be connected together and exploded simultaneously. Anti tampering features, including a mechanical anti-removal device, make PIOVRA resistant to countermeasures.

### Main Features

- Wide range of attachment mechanisms
- Compliant with STANAG 4497
- Insensitive munition
- MURAT
- Maintenance free for 10 years

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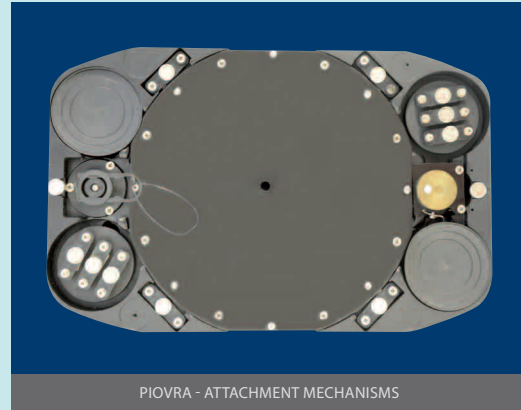
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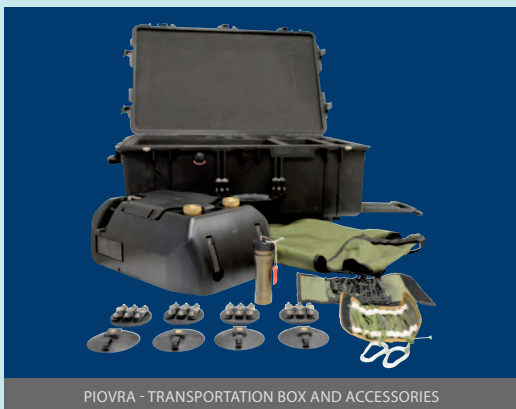
## Limpet mine



PIOVRA - LIVE VERSION



PIOVRA - ATTACHMENT MECHANISMS



PIOVRA - TRANSPORTATION BOX AND ACCESSORIES



PIOVRA - MAIN CHARGE EFFECTS AGAINST 20 mm STEEL TARGET

### Technical Data

#### Physical Characteristics

##### Dimensions

- Width 440 mm
- Length 295 mm
- Height 160 mm

##### Weight

- In air 15 kg max
- In water 0kg (adjustable by the operator)

##### Explosive

- Type C4, PBXN-109 (IM)
- NEQ 6 kg

#### Operational Characteristics

Operational depth up to 50 m

##### Temperature

- Operational -10 to 49 °C
- Storage -54 to 71 °C

Arming delay (mechanical) > 30min

Fire delay programmable up to 10 days

Multi-Synchro up to 6 Limpet Mines  
Shelf life

- 10 years maintenance free
- 20 years minimum with suitable maintenance

#### Safety Features

Transport safeties  
Out of line electro-mechanical fuze  
Detonator 1 A - 1 Watt

#### Versions

Live  
Practice  
Drill

#### I.L.S.

Tool Box  
Documentation and training  
Technical assistance



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