



SOLARSUB

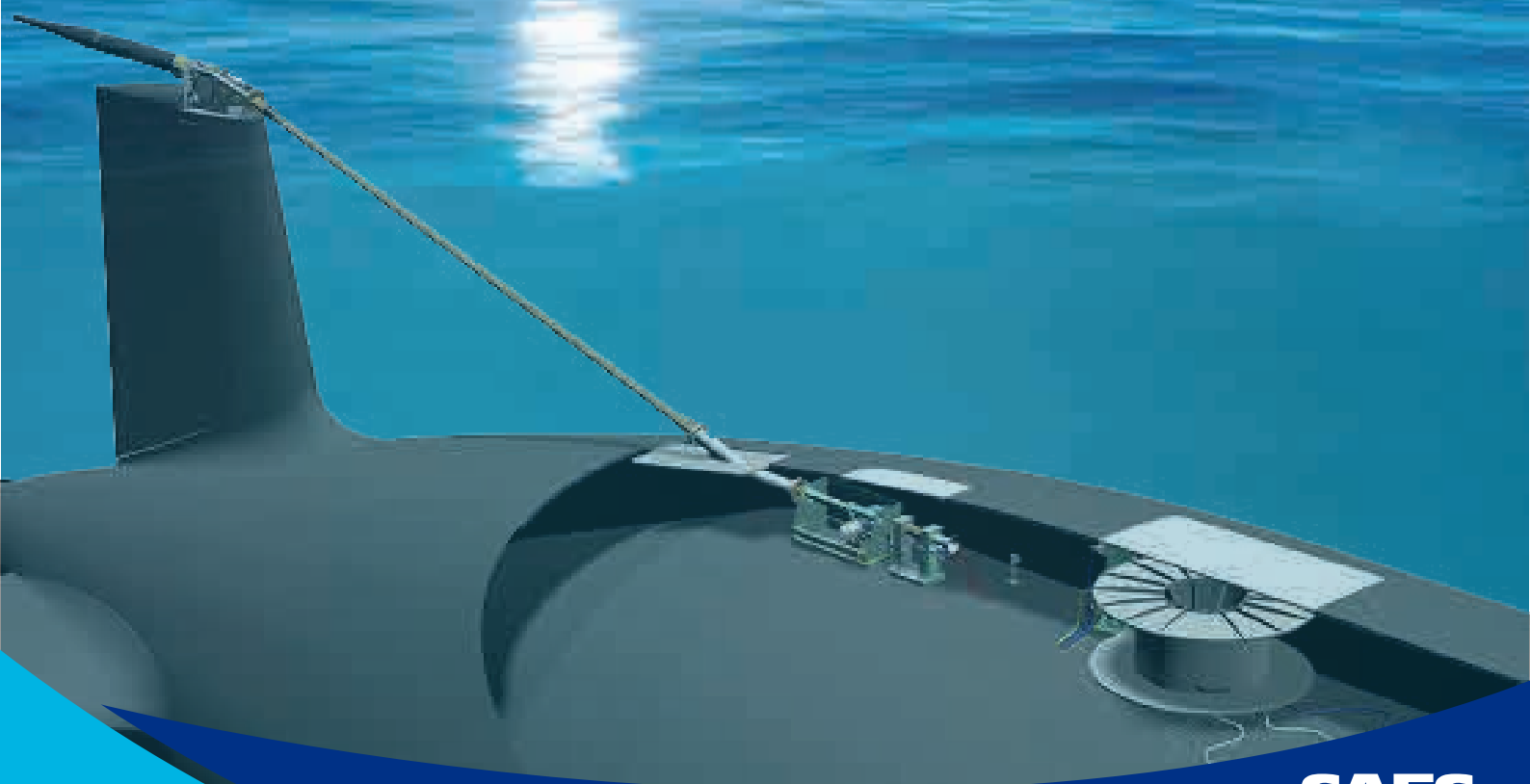
RDTAS & TAHS

Reelable Digital Towed Array Sonar & Handling System

SOLARSUB RDTAS is a Reelable Digital Towed Array Sonar designed and produced by SAES as a cost-effective complement to hull sonar providing greater detection range and easy platform integration.

SOLARSUB RDTAS provides wide area surveillance including surface and submarine stern, long range detection, multiple track capability and improved pre-classification aids.

The **SOLARSUB RDTAS COTS** modularity, the small footprint components and the low power consumption allow simple installation onboard the submarine by using the Clip-on or the Winch possibility according to platform capabilities.



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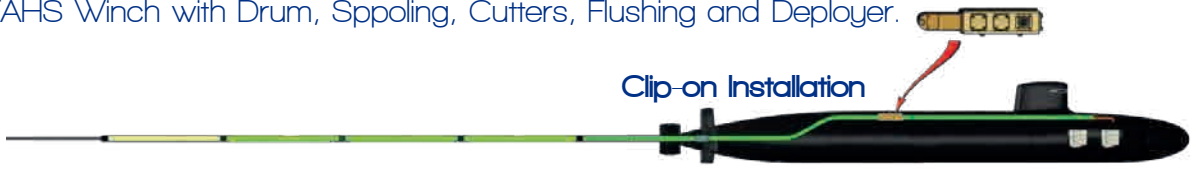
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SOLARSUB RDTAS system is made up of the following units:

- Towed Array Sonar compose of Tow Cable and Acoustic Module.
- Signal Conditioning Unit.
- Operator Console.
- Junction Box in case of Clip-on installation.

Towed Array Handling System (TAHS) can be provided both together with the **SOLARSUB RDTAS** or independently in order to reel a existing array onto a capstan located on the submarine. Composed by TAHS Winch with Drum, Spooling, Cutters, Flushing and Deployer.

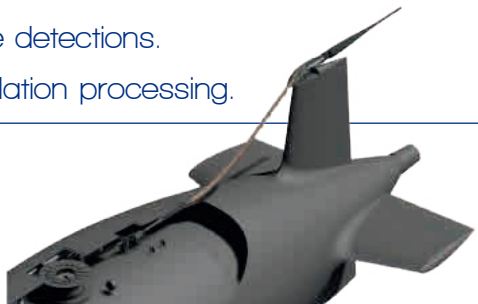
Clip-on Installation

Technical Characteristics

Broad Band Detection	Simultaneous sub-bands with 360° coverage.
Narrow Band Detection	LOFAR in four simultaneous sub-bands.
Threat Analysis	ZOOMS and MULTIVERNIERS running simultaneously in all the beams.
Analysis Beams	DEMON associated to any detected contact.
Target Tracking	Automatic tracking in Narrow and Broad band.
Digital Mission Data Recording	Using data cartridge media.
Integration Time and Anti jamming	For Narrow and Broad band.
Audio	Output channels for audio monitoring, recording, classification and tracking.
Transient Detection	In all the full beams.
Interceptions and analysis	Of possible active detections.
Broad Band Detection	Using cross correlation processing.

Additional Capabilities

Analog Data Recording
Interactive Classification Aids
On Board Training Simulator



Winch Installation

SOLARSUB RDTAS & TAHS have been successfully tested against shock & vibration, EMC and environmental tests.

SOLARSUB RDTAS & TAHS are in service onboard spanish submarines. Extensive sea trials were performed in order to validate the system and to check the full performances.

