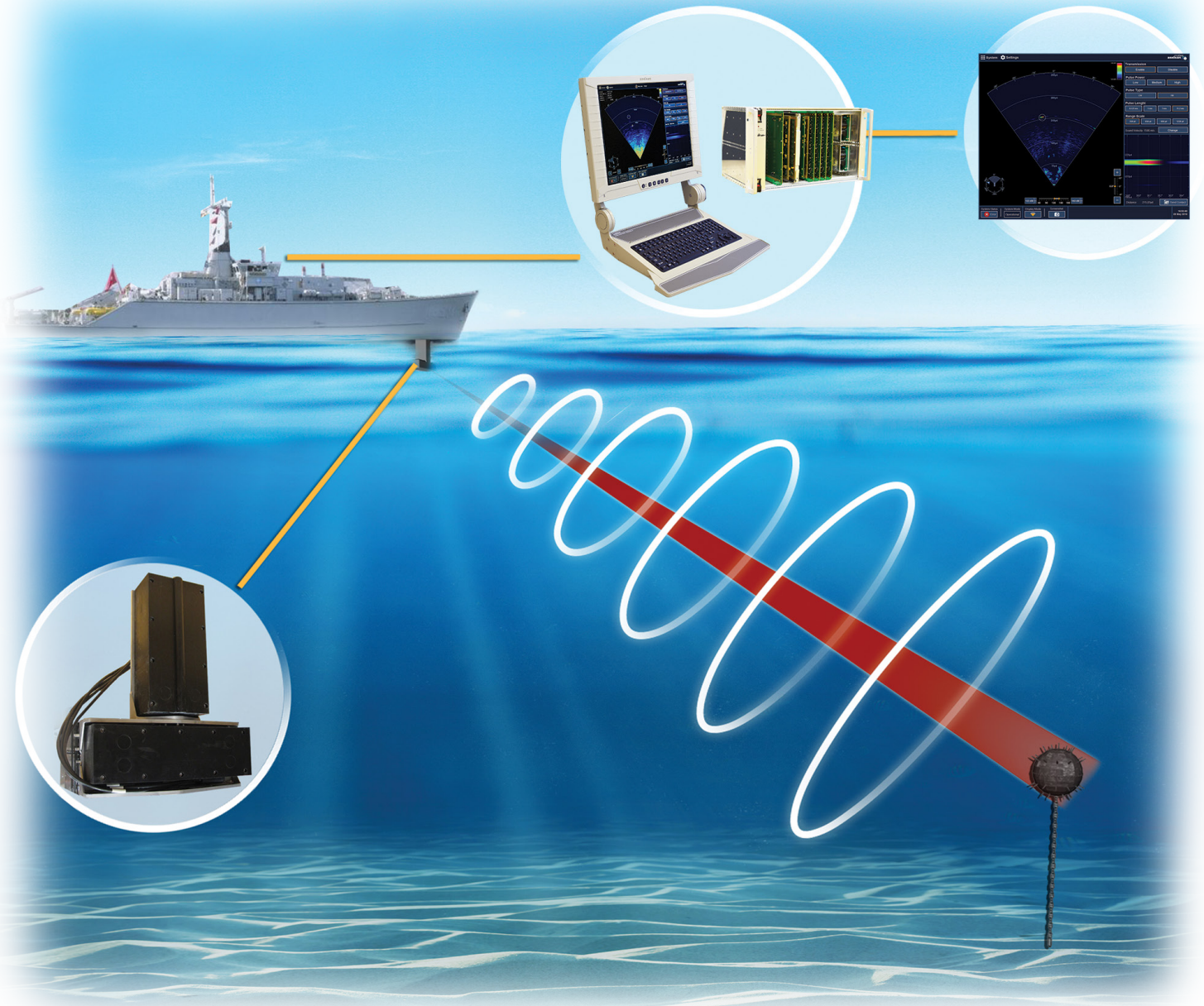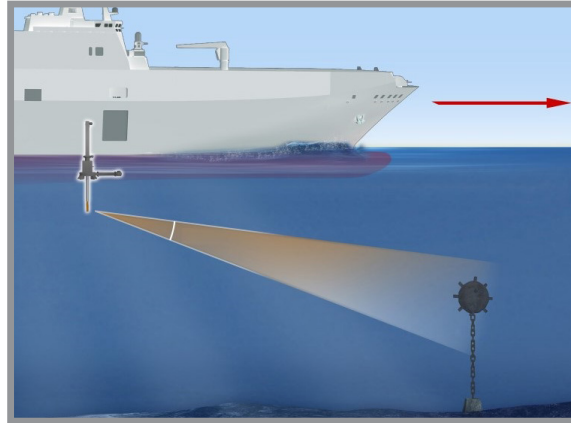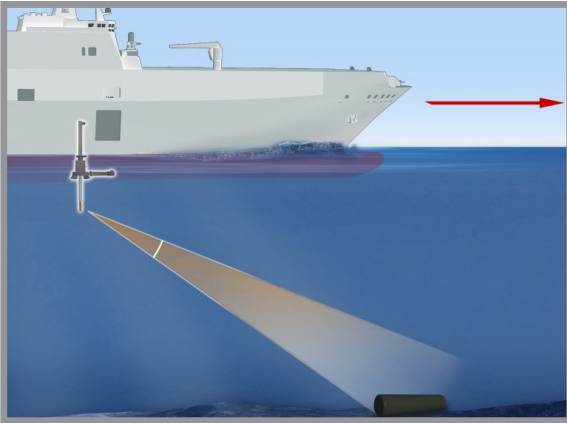# aselsan

MATESS

MINE DETECTION SONAR SYSTEM

MATESS

MINE DETECTION SONAR SYSTEM

MATESS is a Mine Detection and Object Avoidance Sonar, providing automatic detection, localization and classification capability for underwater objects, supporting ships navigation safety at high reliability.

MATESS, is a cost effective system, developed in accordance with modular design, open architecture and user friendly interfacing standards based on naval requirements.

General Specifications

- Long duration and high reliability
- Up-to-dated hardware and software technologies
- Easy integration infrastructure for external systems
- Ruggedized structure and compliant military standards
- Adaptation iaw customer requirements

Technical Specifications

- Bottom Mine detection
- Anchored Mine detection
- Automatic detection of mine and underwater objects
- Automatic target detection alarm
- High detection performance
- High resolution with high frequency arrays
- High range and bearing accuracy
- Low false alarm rate and high probability of detection with automatic noise estimation
- LFM and HFM transmission for high resolution target detection
- CW pulse for doppler sensitivity
- Wide horizontal and vertical sectoral coverage
- ±15° roll and ±5° pitch stabilization
- Modular design, open architecture
- Adjustable source level, pulse length and pulse type according to environment and target conditions
- User friendly interfacing standards based on naval requirements

System Configuration

- Transducer Array
- Transmitter and Receiver & Signal Processing
- User Interface Unit

P: +90 (312) 592 10 00 | **F**: +90 (312) 354 13 02 | sstmarketing@aselsan.com.tr   ASELSAN A.Ş. is a Turkish Armed Forces Foundation company.

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