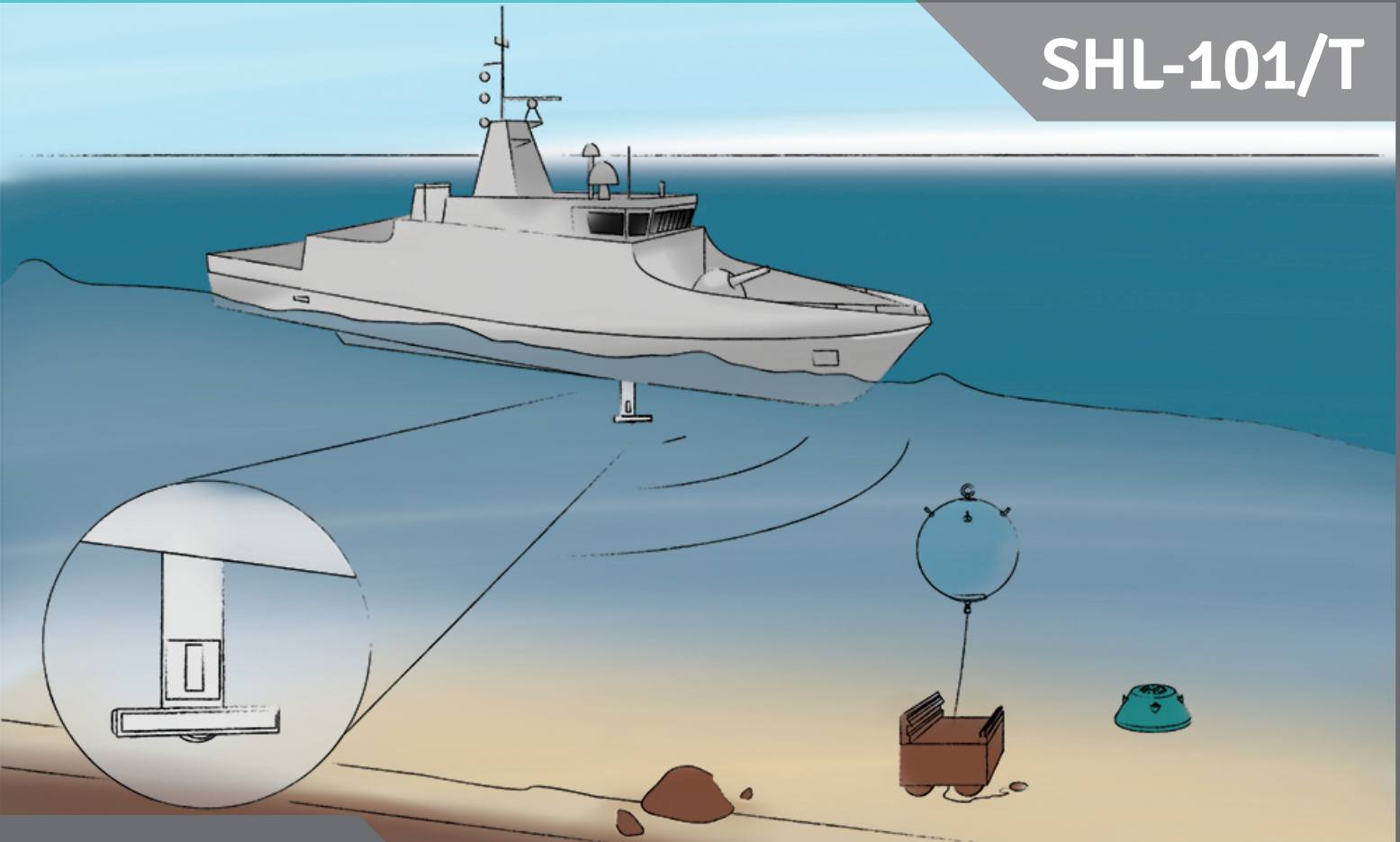**WE BUILD SECURITY FROM THE SEA**

MINE COUNTERMEASURE SONAR SHL-101

SHL-101/T

- searching mines in shallow and deep waters with strong stratification of the water column and high level of interferences up to sea level 4 and up to 6 knots of the ship's speed

- working modes: LF (long-range detection, depth classification), HF (high-resolution detection), VHF (classification by acoustic shadow)

- detection and classification of underwater objects: lying on the water bottom – bottom mines, located in the underwater depths – floating, suspended and anchor mines

- tracking of underwater objects

- sonar performance calculator

- archiving and replaying of survey results imaging

- self-diagnostic system

The SHL-101/T is a triple frequency wideband, high resolution hull mounted MCM sonar. It performs detection and classification bottom and anchor mines, including difficult detectable mines.
It can be used in shallow and deep water in areas of strong layering as well as in the presence of interferences.

- precise electronic and mechanical compensation of the ships roll and trims

- single operator handling

- cooperation with the Ship Command System

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WE BUILD SECURITY FROM THE SEA
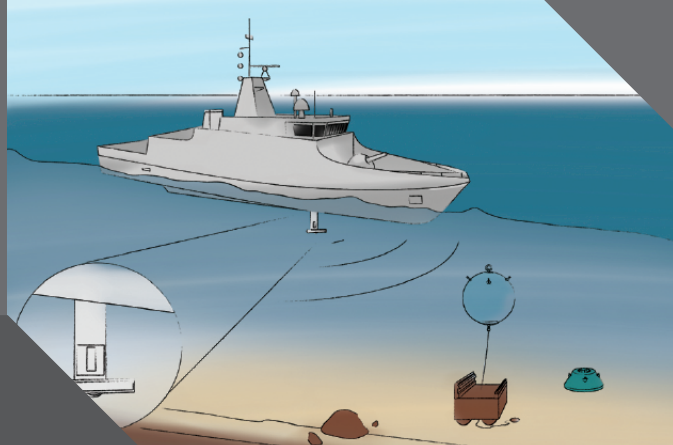
MINE COUNTERMEASURE SONAR SHL-101

SHL-101/T

The SHL-101/T sonar has outstanding detection and classification performance due to state-of-the-art processing hardware and software applications. It is equipped with modern hydroacoustic transducers produced by the French company Thales Underwater Systems. The usage of FM signals enables impulse compression leading to the increase of signal-to-noise ratio and the obtain of several centimetres of depth resolution. This feature significantly improves detection and classification performance against stealthy mines in in waters with a high noise level.

Due to its parameters the SHL-101/T sonar can be used in hydrographic measurement systems, protecting drilling platforms, controlling under surface water areas, navigation in limited water areas.

TECHNICAL PARAMETERS

OPERATIONAL FREQUENCY:	LF	HF	VHF
IMPULSE MODULATION:	LFM/HFM	LFM/HFM	LFM/HFM
RANGE SCALE:	1200 m	900 m	300 m
OBSERVATION SECTOR WIDTH			
In horizontal plane:	80°	60°	12°
In vertical plane:	3,2° 6,4° 12,8°	9°	7,5°
RESOLUTION:			
Angular:	0,7 °	0,4 °	0,17 °
Range:	<0,07 m	<0,025 m	<0,035 m
ANTENNA SYSTEMS			
Vertical transducer:	Tx	-	-
Horizontal transducer:	Rx	Tx & Rx	Tx & Rx
Tilt:	0° ÷ 20° botom	0° ÷ 40° bottom	0° ÷ 40° bottom
Bearing:	-175° ÷ +175°		
Stabilization accuracy:	0,1°		
DISPLAY			
Monitors:	2 x 20" LCD 1280 x 1024 pixels; 1 x 14" touch screen		
Type:	-A- detection and classification -B- classification -zoom -PPI- detection		