

INTELLIGENCE CONNECTING US

MODULAR LIGHTWEIGHT MINESWEEP

UNDERWATER WEAPON SYSTEMS

MLM



- combating sea mines with influence fuses,
- simulating physical fields of vessels,
- easy handling.

The sweep is designed to counter sea mines with influence fuses, whose operation is dependent on the identification of a specific type of vessel basing on the characteristic signature of physical fields of this vessel.

The sweep simulates precisely physical fields of the vessel regarding:

- magneto static field (SM)
- alternating magnetic field (AM) 40Hz ÷ 300 Hz
- electric potential (UEP)
- extremely low electric frequency (ELFE) 1 Hz ÷ 5 Hz
- acoustic field 5 Hz ÷ 30 kHz

The sweep is designed for utilization in naval operations, i.a. such as:

- escorting vessels or a convoy through an endangered water area,
- performing approaches to the shore for seaborne forces,
- recognition of mines at harbour approaches and planned routes of passage.



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The sweep consists of an acoustic generator, a set of elementary magnetic field and electric field excitors connected by cable-ropes with each other and with on-board power supply and control and steering devices. The process of developing optimal operation parameters (vessels physical fields modeling program „OPTYMA Mod.”) as well as command and control of the operation of the sweep has been automated in a range, that allows its full and easy handling from the level of the board interface of the control-steering device. The interface software contains all options of entering, determining and controlling characteristic parameters of mine-countermeasure actions – automatic determining the width of the trawl zones at different depths.

TECHNICAL PARAMETERS:

Functional part length:	29 ÷ 49 m 30 ÷ 50 m
Max. sweeping array length:	209 - 229 m
Depth in the sweeping region:	>5 m ÷ 40m
Sweeping speed:	6 ÷ 9 knots
Towing resistance (v=8w):	19 kN
Number of elementary elements:	3
Power supply voltage:	3x400V
Max. power supply:	20kVA
Generator frequency band:	5Hz÷30kHz
Total hydro-acoustic pressure level (h=20m):	L≥150d Re 1 Pa

