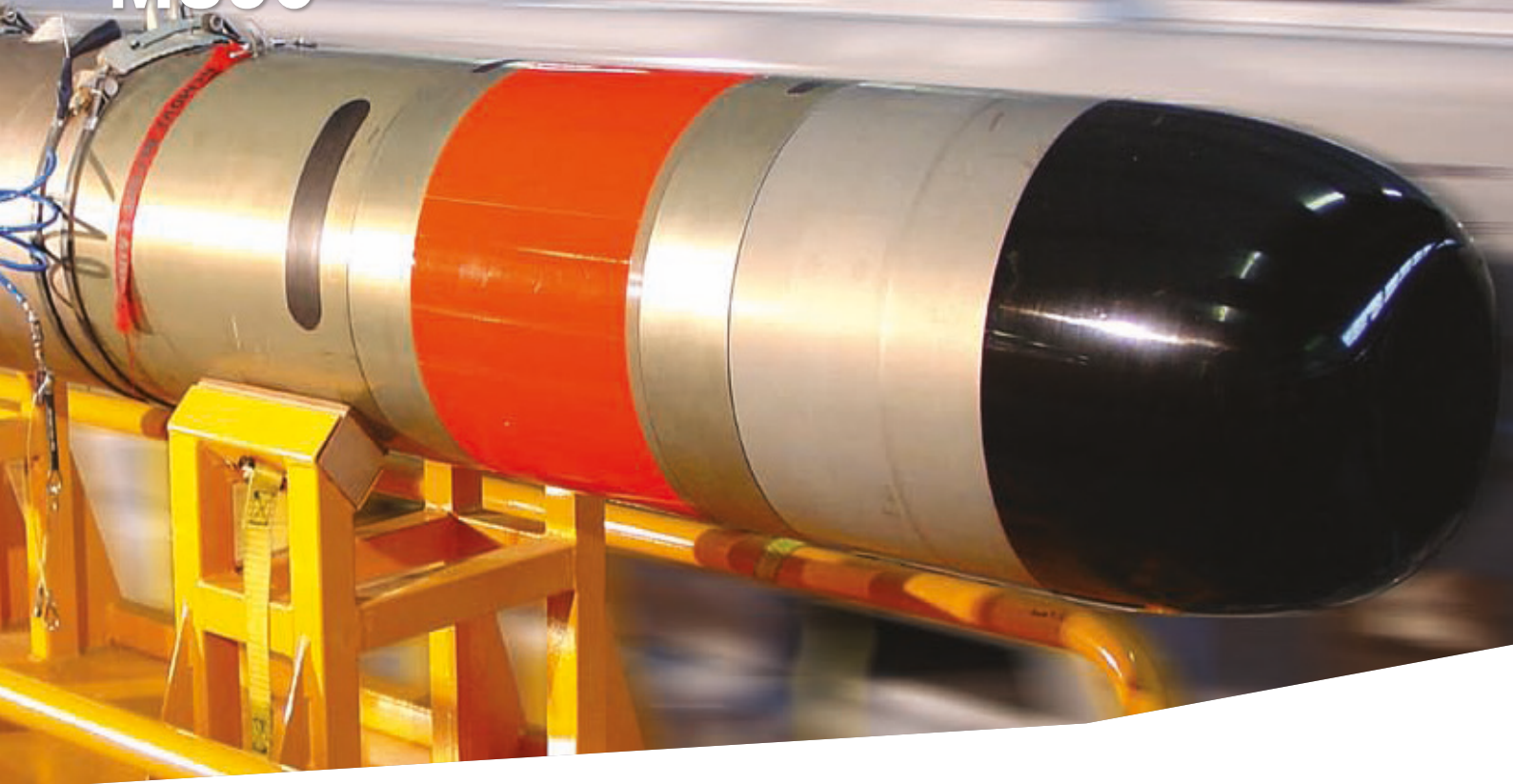


MU90



LIGHTWEIGHT TORPEDO

STATUS

The MU90/IMPACT Advanced Lightweight Torpedo is the leader of the 3rd generation of LWTs. Designed and built with the most advanced technology, the weapon is of fire-and-forget type, conceived to cope with any-task any-environment capability requirements and meet the ASW operational needs of the 21st century. It is in mass production for 6 major NATO and Allied Countries; more than 1000 units have been built in France and Italy (WASS - Livorno). Most of the Marketing and contractual activities are now handled by WASS directly.

DESCRIPTION

The weapon has been designed to counter any type of nuclear or conventional submarine, acoustically coated, deep and fast-evasive, deploying active or passive anti-torpedo effectors. The torpedo can be deployed by any type of platform such as surface vessels, fixed or rotary wing aircrafts or missiles. Prearrangements to cope with Submarine-Launched Anti-AirMissile (SLAAM) have been already incorporated in the system.

The MU90/IMPACT torpedo is 323,7mm 'NATO Standard' calibre, weight 304 kg and is 2850mm long.

Powered through an Aluminium-Silver Oxide sea water battery using dissolved sodium-dioxide powder as electrolyte and incorporating an advanced closed-loop electrolyte re-circulation system, the torpedo is propelled by an electronically controlled high-RPM brush-less motor driving a skewed multi-blades pump-jet propulsor allowing a continuously variable torpedo speed automatically selected by the tactics of the weapon according to the scenario, the environment and the operational phase.

The weapon, of extremely long endurance, operates without any speed degradation and any limitation of salinity and temperature in water depths in excess of 1000 m and as shallow as 25 m, retaining navigation capability up to 3m. The advanced acoustic seeker features multi pre-formed transmission & reception beams.

Its multi-frequency, parallel processing and simultaneous acoustic modes operation, allow multi-



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