



TRANÇA

MULTI PURPOSE
MINI ATTACK SUBMARINE



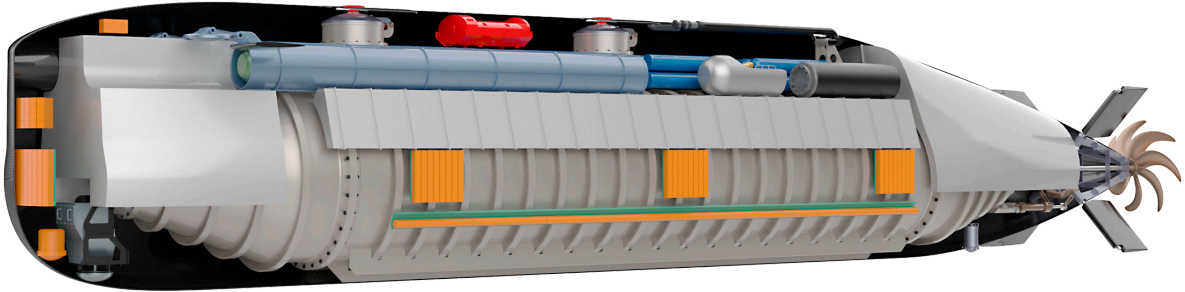
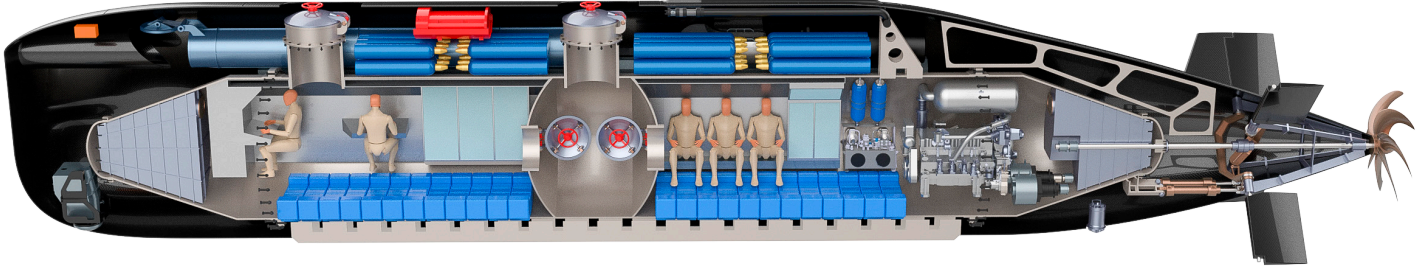
TRANÇA IS A 20M, approximately 80-ton vehicle with a 2000-mile snorkelling and 400-mile underwater range. It uses almost every mature technology developed in Turkey regarding submarines. It will be able to have PRS, FAS, CHA, IDRA and BTA sonars produced by our local defence industry companies. With these, it will be able to detect targets thanks to domestic Combat Management Systems. It will be able to launch Roketsan's 2 AKYA Torpedoes or Sub-ATMACA with the Tubitak's Muren combat management system. It is able to deliver 10 Malaman mines which is developed by MKE-Koç-SAGE. Thanks to the diver lockout chamber inside, it can dry transport 6 combat swimmers and carry up to four wet type swimmer delivery vehicles. Native electric motors and diesel generators for submarines will be tested primarily on Trança and later utilise for larger submarine projects. Thanks to its X rudder, it is planned to be able to perform Seabed operations up to 250m.

Thanks to the fact its small dimensions, it will be possible for the Turkish Naval Forces to have submarines ready to be transported by low-bed trailers, launch into the water by crane at any time in hangars on land, without constantly hiring submariner personnel in bases such as TRNC, Somalia, Libya or Albania.

Thanks to being as effective as large submarines, but much more economical and highly mobile, Tranças can be quickly transported by land to points that need to be reached urgently. Trança can be delivered inside TCG Anadolu. The export potential is also very high for countries that cannot establish submarine fleets.

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GENERAL SPECIFICATIONS (*)

*: A tailor made design for Navy's requirements are possible

Length (LOA)	20 m	COMMAND, CONTROL AND COMBAT MANAGEMENT	TUBITAK MUREN, HAVELSAN SEDA Sonar Integrated Command and Control Systems
Beam (B)	2.8 m		
Height (D)	3.6 m		
Displacement (▽)	60 tonnes		
Diving Depth	250m		
Operation Speed	4 knot	WEAPONS	2 x 533mm torpedo tubes for AKYA Torpedo or Sub-ATMACA Antiship missiles, 2/4 units Stidd DPD Swimmer delivery vehicles or 2/4 units MALAMAN Mines
Snorkelling Speed	8 knot		
Max Speed	12 knot		
Range	400 nm (battery) 2000 nm (snorkel)		
Crew	4 operator + 6 Combat Swimmers		
Swimmer Delivery	Dry, Diver Lockout Chamber	SENSORS	ASELSAN: Passive Ranging Sonars, Flank Array Sonars, Intercept Sonar, Cylindrical Hydrophone Array, Active Sonar, Own noise analysers, acceleration sensors Other: Forward looking sonar, side scan sonar
Communications	VHF, HF, SATCOM		
Navigation	GNSS (Surface) INS+DVL (Underwater)		
Propulsion	50kW electric motor 400kW diesel generator LFP Batteries		