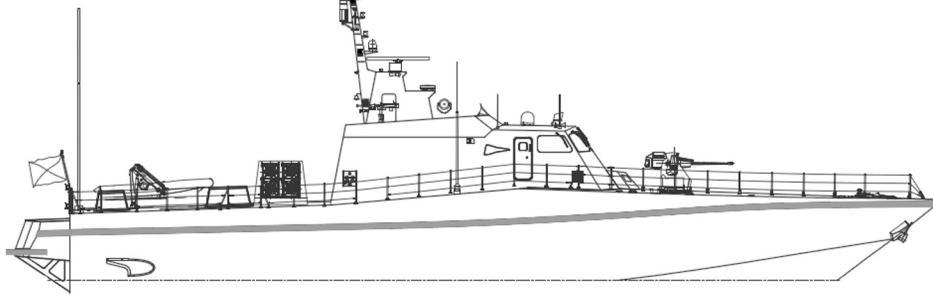


ONUK MRTP34®

“KAAN 34” CLASS FAST PATROL/ATTACK CRAFT



THE ADVANCED FAST PATROL / ATTACK CRAFT

ONUK MRTP34 IS DEVELOPED AS A VERSATILE MULTI ROLE PLATFORM FOR THE INCREASINGLY TOUGH REQUIREMENTS OF THE NAVAL AND LAW ENFORCEMENT FORCES TO CONTROL THE LITTORAL AND THE COASTAL WATERS. INTERNALLY, THE ADVANCED MACHINERY SYSTEMS AND ARRANGEMENT RESULT IN A VESSEL WITH GREATLY ENHANCED OPERABILITY, MAINTAINABILITY AND ACCOMMODATION STANDARDS.

PRIMARY ROLES

MASTERY OF THE LITTORAL CANNOT BE PRESUMED. IT DOES NOT DERIVE DIRECTLY FROM COMMAND OF THE HIGH SEAS. IT IS AN OBJECTIVE WHICH REQUIRES OUR FOCUSED SKILLS AND RESOURCES. ONUK MRTP34 “FAST PATROL / ATTACK CRAFT” HAS BEEN DESIGNED FOR THIS PURPOSE, CAPABLE OF CARRYING OUT A WIDE RANGE OF LITTORAL AND COASTAL WATER LAW ENFORCEMENT-NAVAL DUTIES AND OPEN SEA RESCUE, INCLUDING:

- PATROL / ESCORT / FAST ATTACK
- ANTI-PIRACY
- ANTI-TERRORIST PROTECTION OF THE COASTAL AND OFFSHORE INSTALLATIONS
- SURVEILLANCE / COVERT SURVEILLANCE
- SEARCH AND RESCUE
- ANTI-SMUGGLING
- POLLUTION CONTROL

BACKGROUND:

ONUK MRTP34 FAST PATROL/ATTACK CRAFT IS THE 1M LONGER VERSION OF THE PROVEN ONUK MRTP 33. WITH 16 (SIXTEEN) UNITS OF “KAAN 33” CLASS ONUK MRTP 33 CRAFT OPERATIONAL IN THE TURKISH COAST GUARD AND FOREIGN CUSTOMERS, THE ONUK MRTP34 HAS A STRONG PEDIGREE AND VERY SUBSTANTIAL IMPROVEMENTS.

ONUK MRTP34 HAS IMPROVED SEA KEEPING, HIGHLY STEALTHY CHARACTERISTICS AND IS ABLE TO CARRY LARGER MISSION EQUIPMENT/PAYLOAD SUCH AS A 40 MM STABILIZED GUN, SURFACE-TO-SURFACE MEDIUM RANGE MISSILES, EO SENSORS, FIRE CONTROL SYSTEMS AND DECOYS.

PERFORMANCE:

SPEED AND SEA KEEPING:

THE ONUK MRTP34 HAS BEEN DEVELOPED FOR A TOUGH PROFESSIONAL USE WITH EXCELLENT PERFORMANCE QUALITIES AT BOTH LOW AND HIGH SPEEDS WITH STRONG EMPHASIS ON SEA KEEPING. THE ONUK OE-01 DEEP V HULL, DEPENDING ON ENGINE SELECTION AND BOAT CONFIGURATION, WILL ENABLE THE BOAT TO REACH SPEEDS OVER 50 KNOTS IN CALM WATERS AND UP TO 30 KNOTS IN SEA STATE 4. THE ONUK MRTP34 HAS A SOFT AND DRY RIDE IN ADVERSE WEATHER CONDITIONS, OFFERING, THUS, AN OUTSTANDING PLATFORM CAPABLE OF CARRYING STATE-OF-THE-ART WEAPONS AND SYSTEMS FOR THE VARIOUS TASKS IN THE BROWN WATERS AS WELL AS THE OPEN SEA.

THE MJP WATER JET DRIVE SYSTEM, BESIDES IT'S EXTREMELY ROBUST ALL STAINLESS STEEL CONSTRUCTION AND VERY HIGH EFFICIENCY, PROVIDES EXTREME MANOEUVRABILITY WITH HIGH PRECISION CONTROL AND A VERY SHALLOW DRAUGHT, ENHANCING THE OPERATION IN CONFINED WATERS OR INTERCEPTING/BOARDING LARGER SHIPS IN ROUGH SEAS.

CONSTRUCTION AND COMPONENTS:

ONUK MRTP34 IS BUILT IN ADVANCED COMPOSITES TO SATISFY THE VERY TOUGH REQUIREMENTS OF AN INTENSIVE PROFESSIONAL USE TOGETHER WITH A LONG SERVICE LIFE. THE BENEFITS OF THE ADVANCED COMPOSITE STRUCTURE ARE:

WEIGHT REDUCTION

- * IMPROVED PERFORMANCE
- * INCREASED PAYLOAD
- * FUEL SAVINGS

CORROSION RESISTANCE

- * LONGER SERVICE LIFE
- * MAINTENANCE SAVINGS

IMPROVED

- * THREAT AVOIDANCE / DETECTION
- * BALLISTIC PROTECTION

REDUCED SIGNATURES

- * MACHINERY VIBRATION / ACOUSTIC
- * MAGNETIC SIGNATURE
- * HEAT SIGNATURE

THE HULL AND SUPERSTRUCTURE ARE CONSTRUCTED TO DET NORSKE VERITAS (DNV) HSLC CLASSIFICATION AND NAVAL CRAFT RULES, AND, WILL HAVE DNV 1A1 HSLC PATROL R2 CLASS NOTATION. ALL BOATS OF THE SERIES ARE AND WILL BE DELIVERED WITH THIS CLASS CERTIFICATE. THE HELM STATION AND THE INTERIORS HAVE BEEN DESIGNED IN LINE WITH THE SAE RECOMMENDATIONS FOR ERGONOMICS TO PROVIDE THE CREW WITH MAXIMUM COMFORT AND MINIMUM FATIGUE IN PROLONGED USE IN HEAVY SEAS.

MACHINERY AND PROPULSION

THE VESSEL IS FITTED WITH TWIN DIESELS DRIVING THROUGH WATER JETS WITH ENGINE OPTIONS RANGING FROM 2x2450kW TO 2x4000kW DEPENDING ON THE MISSION AND SPEED REQUIREMENTS, THE ONUK MRTP34 CAN BE EQUIPPED WITH DIFFERENT COMPONENTS FOR OPTIMUM OPERATIONAL EFFICIENCY/PRICE RATIO. THE MECHANICAL COMPONENTS ARE SELECTED WITH THE INTENSIVE PROFESSIONAL USE IN MIND. THEY OFFER A HIGH LEVEL OF RELIABILITY, DESPITE THE EXTREME PERFORMANCE REQUIREMENTS.

STABILITY: INTACT-DAMAGED:

NAVAL STANDARDS HAVE BEEN APPLIED TO THE ONUK MRTP34 FOR THE INTACT AND DAMAGED STABILITY. ONUK MRTP34 MEETS THE TURKISH NAVY, NATO AND DNV CRITERIA FOR DAMAGED STABILITY AND WILL REMAIN AFLOAT AND UPRIGHT WITH FLOODING IN ANY SINGLE MAIN COMPARTMENT.

MISSION MODULES

ONUK MRTP34 CAN BE EQUIPPED WITH VARIOUS MISSION MODULES DEPENDING ON THE CUSTOMER REQUIREMENTS. DESPITE THE SIZE OF THE PLATFORM, THESE MODULES HAVE BEEN INTEGRATED WITH THE MODULARITY AND RECONFIGURABILITY OBJECTIVES IN MIND. THUS, THE PLATFORM CAN BE RECONFIGURED WITH DIFFERENT MISSION MODULES, INCREASING DRAMATICALLY THE OPERATIONAL FLEXIBILITY AND REDUCING THE COSTS.

THE MISSION MODULES WOULD BE :

- MULTI WEAPON MOUNTS.
 - FORWARD GUN:
 - BEA Bofor 40MM MK4
 - OTOMELARA 40MM FAST FOURTY
 - ASELSAN STOP STABILIZED TURRET WITH 25/30MM GUN
 - MEDIUM RANGE SSM (HARPOON BLOCK II OR EQUIVALENT).
 - SHORT RANGE SAM.
 - 2X12,7MM GPMG
 - 2X40MM AGL
- MULTI SENSOR SURVEILLANCE SUITE
 - 2D RADAR
 - EOD
- SEARCH AND RESCUE EQUIPMENT
- DECOYS

ONUK TAŞIT SANAYİ AŞ.

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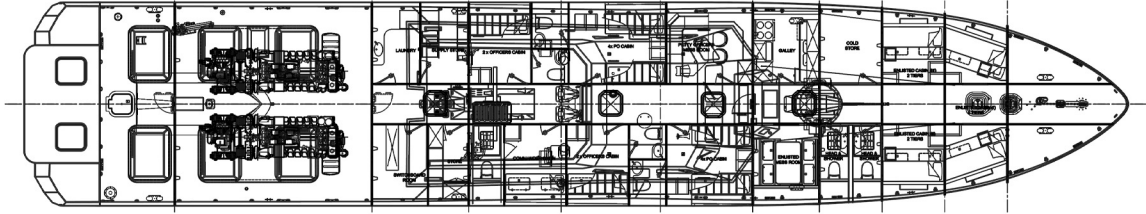
ONUK MRTP® IS THE REGISTERED TRADE MARK OF ONUK TAŞIT SANAYİ AŞ.

TÜM HAKLARI ONUK TAŞIT SANAYİ AŞ.'YE AİTTİR. / PROPRIETARY INFORMATION OF ONUK TAŞIT SANAYİ AŞ.

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ONUK MRT34®

TECHNICAL CHARACTERISTICS



DIMENSIONS

LOA (INC. PLATFORM)	36.80 M
BEAM, MAX	6.94 M
DRAUGHT (STILL)	1.55 M

DISPLACEMENT

DISPLACEMENT, FULL LOAD (DEPENDING ON WEAPON AND OTHER COMPONENTS)	130.0 TONNES
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OPERATIONAL CHARACTERISTICS

MAXIMUM SPEED	50+ KNOTS (DEPENDING ON THE ENGINE SELECTION/CONFIGURATION)
PROPULSION	DIESELS, 2 x 2450 KW - 2 x 4000 KW
DRIVE SYSTEM	MJP WATER JETS, 2 x MJP 753CSUDD
RANGE (ECONOMICAL SPEED)	1000 NAUTICAL MILES (AT 30 KNOTS)
ARMAMENT	BAR BOFORS 40MM MK4 OR OTOMELARA 40L70 FAST FORTY OR ASELSAN STOP (25/30MM), SSM, SAM

CAPACITIES

FUEL CAPACITY	22000 LT
FRESH WATER	1500 LT
ENDURANCE	3 DAYS
CREW	UP TO 20
MISSION CREW	UP TO 6
STRUCTURE	ADVANCED COMPOSITES (DNV 1A1 HSLC PATROL R2)

ONUK
Competition Development