BAYKAR

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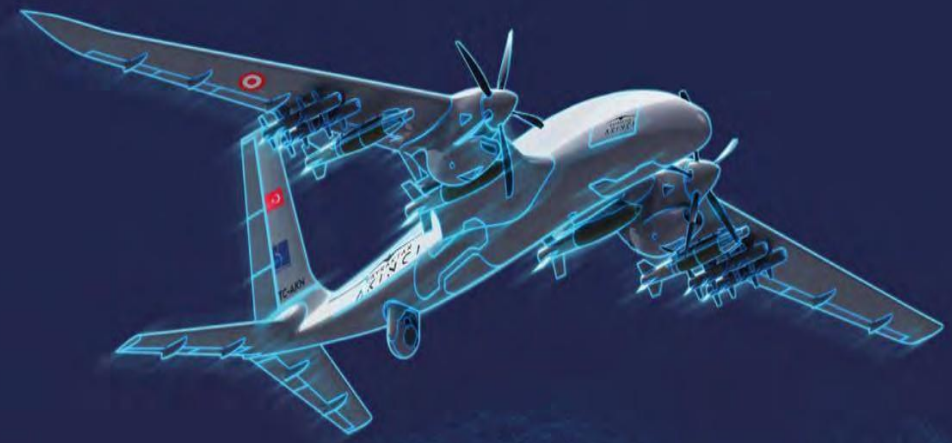
BAYRAKTAR

AKINCI



BAYKAR

BAYRAKTAR AKINCI

TECHNICAL **SPECIFICATIONS**

Cruise Speed	150 knots
Maximum Speed	250 knots
Operational Altitude	30,000 ft
Service Ceiling	40,000 ft
Endurance	20 hours
Wingspan	20 m
Length	12.3 m
Takeoff & Landing	Runway
MTOW	5,500 kg
Payload Capacity	1,350 kg (450 kg Int. + 900 kg Ext.)
Fuel	Jet-A1 / JP-8
Thrust	Turboprop with 5 blade propeller
Power	2x450 hp or 2x750 hp options

TECHNICAL **CAPABILITIES**

Fault Tolerant System Architecture
Triple Redundant Flight Control System
Redundant Sensors and Actuators
Air-to-Ground Munition Delivery
Air-to-Air Missile Launch
Satellite Communication
Advanced Autonomy and Artificial Intelligence
Advanced Radar System
Electro-Optical and Thermal Imaging
Target Designation

Bayraktar Akıncı is an Unmanned Air Vehicle System designed to meet rigorous operational requirements. This aircraft carries a variety of payloads for reconnaissance, survey, intelligence, electronic warfare, designation and attack missions, and can fly extended hours at high altitudes. Advanced autonomy reduces operator burden and its redundant avionics architecture, including a triple redundant autopilot, maximizes flight safety. The aircraft's thrust system showcases a highly reliable dual turboprop engine configuration that minimizes the likelihood of power loss.

With an infrastructure that allows for integration of all nationally-developed air-to-air and air-to-ground munitions, the system reduces operational necessities and costs relative to manned systems with comparable capability. A robust satellite data link enables performing missions in regions with no communication infrastructure, and advanced navigation systems enable the aircraft to fly within electronic warfare environments.

Akıncı aircraft will have augmented situational awareness and sense the environment thanks to Artificial Intelligence onboard and will be able to reroute itself to avoid static and dynamic obstacles.

TO MAKE IT THE WORLD'S MOST ADVANCED TECHNOLOGICAL SYSTEM IN ITS OWN CLASS,

BAYRAKTAR AKINCI ATTACK UNMANNED AERIAL VEHICLE SYSTEM

WILL BE EQUIPPED WITH THE FOLLOWING MISSILES AND BOMBS WHICH ARE DOMESTIC PRODUCTIONS

MAM-L, MAM-C, CİRİT, L-UMTAS, BOZOK, MK-81, MK-82, MK-83, KANATLI GÜDÜM KİTİ (KGK)-MK-82, GÖKDOĞAN, BOZDOĞAN, SOM-A.

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BAYRAKTAR

MINIUAV

BAYKAR

BAYRA

KTAR

MINIUAV

TECHNICAL **FEATURES**

Comm. Range	< 10 km
Cruise Speed	30 knots
Operational Altitude	2000 ft
Endurance	60 mins
Wing Span	2 m
Length	1.2 m
Takeoff	Hand Launch
Landing	Parachute / Belly Landing
Operational Temp Range	-20 °C ... +50 °C
Power	Battery
Motor	Electric Motor
Payload	2 Axis Day / Thermal Camera
Data Links	Primary: Digital Spread Spectrum

TECHNICAL **FEATURES**

Automatic Waypoint Navigation
Secure Digital Communication
Home Return and Automatic Landing in Case of Lost Communication
Smart Battery Management System
Multi UAV Support
Remote Video Camera / Camera and Monitor
Ground Control Switching
Automatic Takeoff / Automatic Climb
Automatic Belly Landing / Parachute Deployment

TECHNICAL **FEATURES**

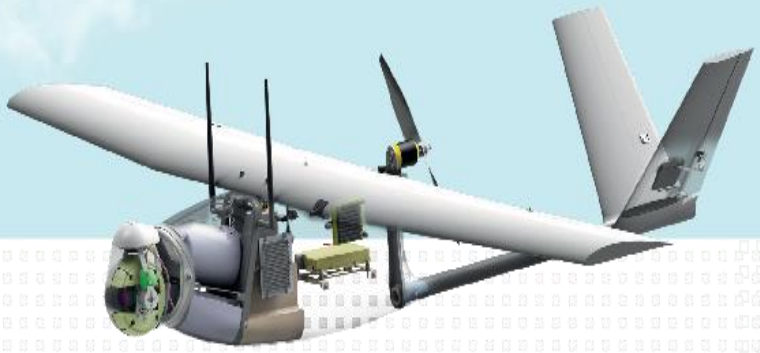
Joystick Assisted Semi-Automatic Control
Safe Control in Case of Electric Motor Disfunction
Stall Control in Case of Very Hard Wind Conditions

The Bayraktar Mini Unmanned Aerial Vehicle System is an intelligent, tele-presence robotic system for short range reconnaissance applications. The system has been operational since 2007 after having first been deployed within the Turkish Armed forces.

MORE THAN
100.000 FLIGHT HOURS
EXPERIENCE

TRAINED MORE THAN
1.000 OPERATORS

OPERATIONAL
SINCE 2007 WITHIN
THE TURKISH ARMED FORCES,
GENDARMARIE,
SPECIAL FORCES,
TURKISH POLICE AND
QATAR ARMED FORCES



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MIQUAV

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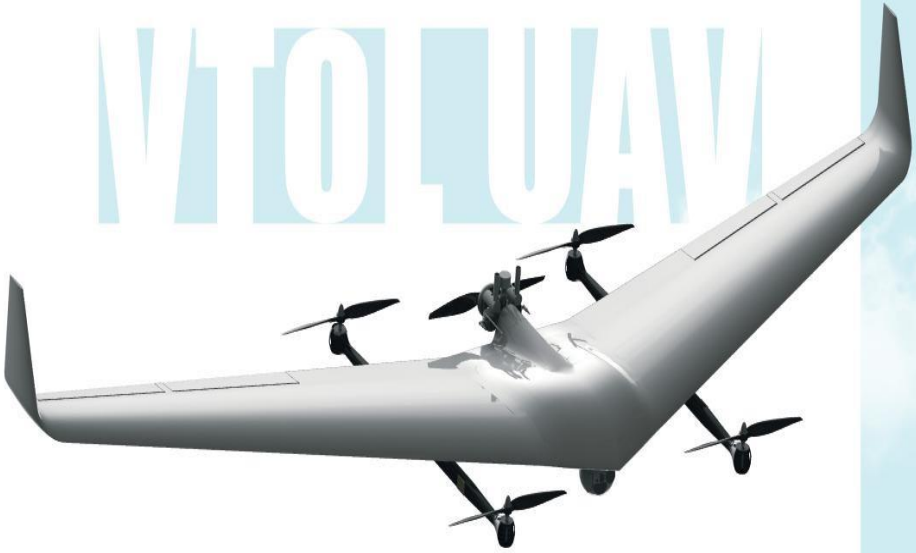
VTOL UAV



BAYRAKTAR VTOL TACTICAL UAV

Bayraktar Vertical Take-Off and Landing Unmanned Air Vehicle (VTOL UAV) is a tactical aircraft which is developed for military reconnaissance and intelligence missons. This UAV can implement autonomous cruise, autonomous take-off and landing, and semi autonomous cruise.

Firstly, Bayraktar VTOL takes off with its electrical motors; then, it perform cruise mode with fuel engine only. There are three options for landing; vertical landing, on aircraft body or with parachute. Also, Bayraktar VTOL has flight control system that can perform autonomous route tracking, object tracking, orbiting, return-to-home.

TECHNICAL **SPECIFICATIONS**

Comm. Range	< 150 km
Cruise Speed	45-50 knots
Maximum Speed	80 knots
Operational Altitude	9000 ft
Ceiling Altitude	15000 ft
Endurance	< 12 h
Span	5 m
Length	1.5 m
Take Off/Landing	VTOL
Maximum Take Off Weight	30 kg
Payload Capacity	< 5 kg
Engine Type	6 HP Internal Combustion Engine (Elektronic Fuel Enjection)

TECHNICAL **CAPABILITIES**

Fully Autonomous Flight System
Fully Autonomy with Aided Sensor Fusion
Autonomous Take-Off and Landing System
Semi Autonomous Flight Mode
Error Proof System Architecture
Triple Redundant Flight Control System
Dual Redundant Servo Actuators
Electro-Optical (EO) Camera Module
Infrared (IR) Camera Module
Laser Range Finder
Laser Pointer
Digital Data and Video Link