

T129 ATAK

Multirole Combat Helicopter



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T129 ATAK

MULTIROLE COMBAT HELICOPTER

- Improved Situational Awareness,
- Weapon Cueing,
- Night Vision,
- FLIR Image,
- Head Tracking.

The all new T129 ATAK features high power engines and updated rotor dynamics to deliver superior 'hot and high' performance which enables sustained operations in the most challenging littoral and land environments. The improved power and performance are complemented by an advanced Mission System and supporting architecture which delivers a significant weapon capability to the Battlefield Commander.



- Thermal Camera,
- Laser Range Finder / Designator,
- Laser Spot Tracker,
- Color TV Camera,
- Color Spotter Camera,
- Multiple Target Tracking Capability over all three camera images (Thermal, TV, Spotter).



Front Cockpit



Rear Cockpit



T129 ATAK

Multirole Combat Helicopter

The multitude of global conflicts demands a flexible and adaptive range of weapon systems which has led to the introduction of the new T129 ATAK variant: the high capability Multirole Combat Helicopter.

ADAPTABLE, BATTLEFIELD FORCE MULTIPLIER

Agile, responsive and strategically deployable, the T129 has versatility to support a number of missions such as armed reconnaissance and surveillance; anti-armor operations, discrete target elimination, escort, joint fires (direction of artillery, Forward Air Control and Naval Gunfire Support) and dynamic air threat suppression.

- 24 hour sustained day/night all environment capability
- Global operations with a reduced logistic footprint
- Mission effectiveness achieved with high reliability, availability and maintainability associated with low operating cost
- Open systems architecture enabling future cockpit, mission and weapons systems growth
- Dual cockpit capability
- Multiple weapons firing

Lethality and deterrence have been enhanced with new modern precision air-to-ground and air-to-air missiles, modern rocket system, a battle proven off-axis cannon and an increased weapon payload.

MAXIMUM SURVIVABILITY AND SAFETY

Battlefield survivability is optimised by updated Integrated Aircraft Survivability Equipment which includes an advanced electronic warfare processor, radar, laser and missile warners and the assurance of self protection via enhanced chaff and flare countermeasures dispenser, radar jammer and IR jamming capability.

ROLES

- Armed Reconnaissance
- Precision Strike
- Armed Escort
- Fire Support
- Attack
- Suppression of Enemy Air Defence
- Deep Strike
- Security



TECHNICAL DATA

EXTERNAL DIMENSIONS		
Length (rotor turning)	14.60 m	47.90 ft
Height	3.40 m	11.20 ft
Main Rotor Diameter	11.90 m	39.00 ft
Overall Width	11.90 m	39.00 ft
Overall Height	3.95 m	12.95 ft

POWER PLANT		
2 x Turboshaft Engines	LHTEC-CTS800-4A	
Take-off Power	2 x 1014 kw	2 x 1360 shp

WEIGHT		
MTOW	5000 kg	11023 lb
CREW	2 pilots	

PERFORMANCE

(at Average Mission Weight, ISA – Sea Level)

Maximum Cruise Speed	269 km/h	145 knots
Hover In Ground Effect (TOP)	3993 m	13100 ft
Hover Out of Ground Effect (TOP)	3048 m	10000 ft
Rate of Climb (TOP)	13.97 m/s	2750 ft/min
Vertical rate of Climb	7.9 m/s	1550 ft/min
Service Ceiling	6096 m	20000 ft
Range (std tank)	561 km	303 nm
Endurance (std tank)	3 hrs	

The data set forth in this document are general in nature and may vary with conditions.

For performance data and operating limitations for any specific mission, reference must be made to the approved flight manual.

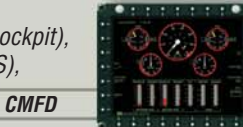
Asymmetrical Weapons Load Capability



- 20 mm Turreted Gun System
- FOUR WING STORE STATIONS
- 8 ATGM Missiles
- 4 x 19 70 mm (2.75") Rockets
- 4 x 7 70 mm (2.75") Rockets
- 2-4 x 2 Air-to-Air Missiles
- 2 x 12.7 mm (.50") Gun Pods (Optional)
- 2 Aux Fuel Tanks (294 kg each)

COMPUTERS-DISPLAYS

- Avionic Central Control Computer-ACCC (Dual),
 - Modular HW and SW design,
 - Large memory capacity,
 - High processing capability,
 - Multiple interface support,
 - Compact and rugged architecture.
- Full Digital 4-Axis Automatic Flight Control System (AFCS),
- EW-Suite Central Processing System (SCPS),
- Integrated Weapon Control Units,
- Air Vehicle Monitoring System (AVMS),
- Color Multi Function Display (CMFD-2 per cockpit),
- Integrated Standby Instrument System (ISIS),
- Air Data Computer (ADC),
- Keyboard Display Units (1 per cockpit).



COMMUNICATION

- Software Defined Networking Radio (SDNR),
 - 30-512 MHz V/UHF band,
 - SW configurable architecture,
 - SDNR provides,
 - Combat Net Radio (CNR), Broad Band Packet Radio (BBPR), Narrow Band Packet Radio (NBPR) and Single Channel Radio Access (SCRA) functionalities.
- VHF/UHF Radios,
- HF Radio,
- IFF Transponder,
- Voice Encryption / Frequency Hopping,
- Data and Image Transmission System,
- Emergency Locator Transmitter (ELT).



WEAPONS

- Anti-Tank Guided Missiles (ATGM),
- Air-to-Air Missiles (ATAM),
- 70 mm (2.75") Guided Rockets,
- 70 mm (2.75") Rockets,
- 20 mm Turreted Gun System,
- 12.7 mm (.50") Gun Pods (Optional).

ELECTRONIC WARFARE

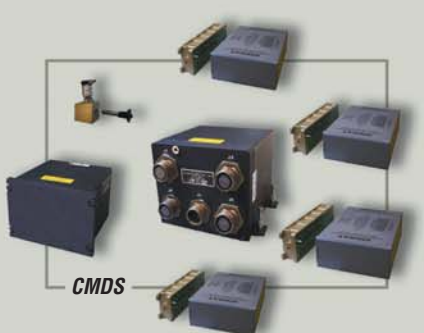
- Countermeasure Dispensing System (CMDS),
- Missile Warning System (MWS),
- Laser Warning Receiver (LWR),
- RF Jammer (RFJ),
- Radar Warning Receiver (RWR),
- Suite Central Processing System (SCPS),
- IR Countermeasures (IRCM).



RFJ



RWR



CMDS



MWS



LWR

TARGETING

- FLIR,
 - High Resolution IR Image,
 - Laser Range Finder / Designator,
 - Color Spotter Camera,
 - Color Day TV Camera,
 - Laser Spot Tracker,
 - Highly Accurate Target Locating.
- Helmet Integrated Cueing System. ASELFLIR-300T



INTEGRATED LOGISTIC SUPPORT

The T129 ATAK Helicopter features ease of maintenance, based on the legacy of the multi-mission proven AW129; that has actively been in service in various theatres.

The T129 ATAK Helicopter achieves low maintenance costs through an advanced Air Vehicle Monitoring System providing diagnostics, high reliability parts and a two level maintenance concept (Organizational "O" and Depot "D" Level).

The T129 ATAK Helicopter comes with an Integrated Logistics Support package that encompasses Logistics Support, Pilot and Maintenance Personnel Training and Technical Support at User Bases.

SUPPORTABILITY

- The maintenance concept is essentially "on condition" supplemented by preventive maintenance at scheduled intervals,
- Accessory drive operation significantly reduces the number of ground support equipment required for maintenance checks,
- Major inspections at organizational level can be performed in remote and unprepared areas,
- The on-board Aircraft & Mission Management System (AMMS) providing monitoring, fault isolation, maintenance data recording and self-diagnostic permits quick and easy corrective actions by ground personnel,
- Battle Damage Repair (BDR) manual prescribes simple techniques, minimum tools and materials.

UNRIVALLED LIFE CYCLE COST

- Competitive acquisition cost,
- Reduced maintenance and operational cost.



CUSTOMER TAILORED TRAINING

- More than 20 years of combat helicopter experience forms the training foundation for the T129 user,
- Dedicated training tools for aircrew and maintenance personnel ranging from Computer Based Training (CBT) to Maintenance Simulators (MS) and Updated Flight and Combat Simulator (CMS).



DEPLOYMENT

- The T129 is able to self deploy over 1000 km using external fuel tanks while carrying four air-to-air missiles for self protection,
- Easy air transportability (C130 and larger A/C),
- On-ship operational capability.