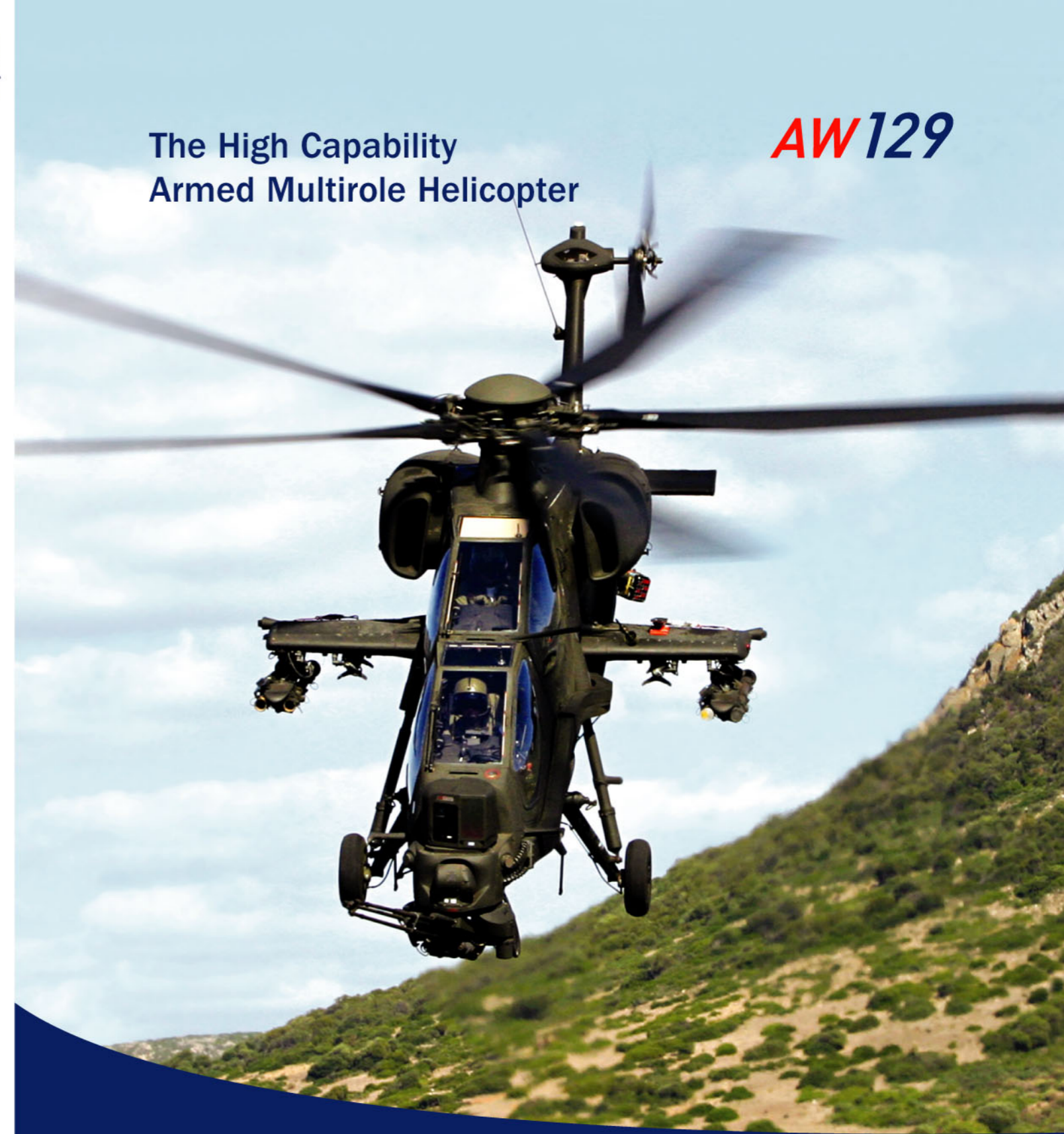


The High Capability Armed Multirole Helicopter

AW129



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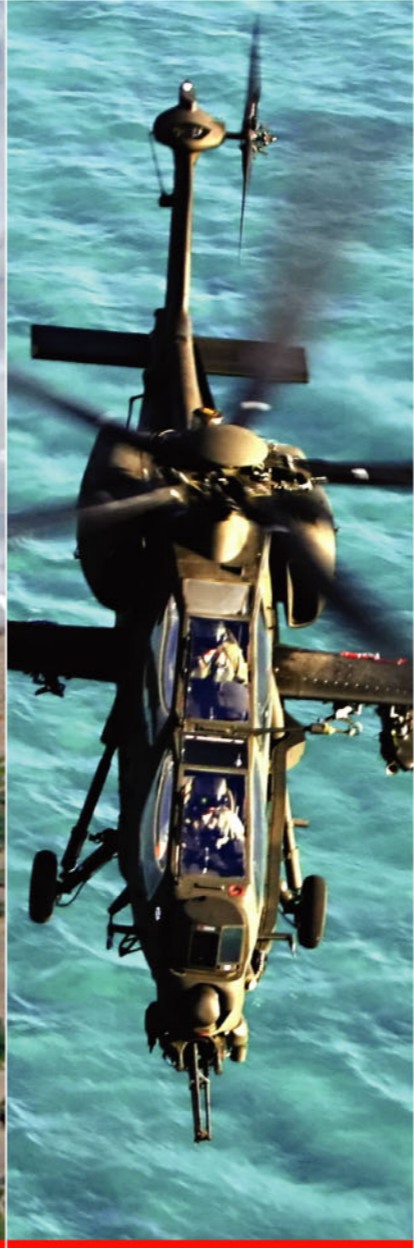
AgustaWestland
A Finmeccanica Company



MULTI ROLE COMBAT
HELICOPTER



OUTSTANDING WEAPON
PLATFORM



REDUCED PILOT WORKLOAD



MULTIPLE WEAPON CAPABILITY

CUSTOMER TAILORED TRAINING

**DESIGNED TO MAXIMISE EFFECT, WHATEVER
OR WHEREVER THE COMBAT SCENARIO**

- Flexible weapon mix options
- Full Day/Night All Environment capability
- Low detectability
- High Ballistic Tolerance
- Crashworthy to MIL-STD 1290
- Low whole life costs
- Minimum maintenance and logistic support when deployed

AW129 - LOW COST LETHALITY

The diversity of global conflicts has demanded a flexible and adaptive range of warfighting assets which has led to the introduction of the new AW129 variant: the high capability Armed Multirole AW129 helicopter.

ADAPTABLE, BATTLEFIELD FORCE MULTIPLIER

The spectrum of war fighting from high intensity conflicts to peace-keeping operations, coupled with the continuing fight against global terrorism has resulted in the design of this dynamic force-multiplier.

The all new AW129 features high power engines and updated rotor dynamics to deliver superior 'hot and high' performance which, in turn 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 ISTAR and weapon capability to the Battlefield Commander.

Agile, responsive and strategically deployable, the AW129 has versatility to support a number of missions such as armed reconnaissance and surveillance; anti-armour 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.
- 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.
- 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.

THE MISSION SYSTEMS

- Data Link
- EW Suite with Passive & Active Counter Measures
- Weapon Ballistic Trajectory Processing
- Mast Mounted Sensor Provision
- Integrated INS/GPS/Doppler Navigation

ROLES

- Armed Reconnaissance
- Attack
- Precision Strike
- Suppression of Enemy Air Defence

- Armed Escort
- Deep Strike
- Fire Support
- Security

THE OUTSTANDING AUTOMATIC FLIGHT CONTROL SYSTEM

- Allows hands-off operation
- Simplifies 'Fly-To' navigation
- Provides excellent handling qualities throughout the flight envelope
- Features Command Augmentation for crisp response in NOE flight and additional Stability Augmentation for precise weapon aiming

RESULTING IN SMOOTH & PRECISE CONTROL WITH LOW PILOT WORKLOAD

An advanced state of the art glass cockpit enhances mission management and delivers exceptional situational awareness

ENHANCED MISSION EFFECTIVENESS

AIRCRAFT & MISSION MANAGEMENT SYSTEM - AMMS

Mission and aircraft systems are integrated through a fully redundant AMMS which handles HUMS, Mission Management, Digital Map and symbology generation processing tasks. The AMMS is 'state of the art' and is SW coded in ADA to give added user confidence.

HIGH PERFORMANCE DETECTION, TARGETTING AND NAVIGATION SENSORS FOR BOTH DAY & NIGHT OPERATIONS

- Long range target detection and ID
- 3rd generation FLIR and TV
- Eye-safe Laser range finder and designator
- Automatic target tracker
- Mission video recording
- Night piloting FLIR
- Helmet mounted display and sighting system

THE AIR VEHICLE

- Enhanced ballistic tolerance for critical aircraft systems and crew
- Advanced technology LHTEC-T800 engines
- Crashworthy airframe
- Highly agile performance
- Armoured seats and self sealing fuel tanks
- Low signature rotor characteristics



- | | | |
|---|--|---|
| Ballistically tolerant rotating outer mast | Composite large chord TR blades | Composite MR push-pull rods buried into mast |
| Ballistically tolerant stabilizers | Grease lubricated TR gear boxes | Two engines separated and protected from fire |
| TR Hydro-Elec actuator integral to 90° gear box | Single reinforced TR drive shaft bearing | Engine/XMSN mounting tolerant to loss of support |
| Composite MR components and blades ballistically tolerant | Dual fuel tanks self-sealing fire protected | XMNS dry run capability |
| Crew protected by armoured seats and side panels | Ballistically tolerant MR Hydro-Elec control actuators | TR drive shaft ballistically tolerant |
| | | Tail boom ballistically tolerant, multi-loads paths |



INTEGRATED LOGISTIC SUPPORT

A total Integrated Logistic Support package ensures the AW129 is backed-up by a trusted supportability solution founded on over 20 years of A129 Mangusta experience.

SUPPORTABILITY

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

DEPLOYMENT

- The AW129 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)
- Sea portable (and from ship operational)

TRAINING AND SIMULATION

- More than 20 years of Italian Army combat helicopter experience will form the training foundation for the AW129 user.
- Various training tools for aircrew and maintenance personnel ranging from Computer Based Training (CBT) to Maintenance Simulators (MS) and Updated flight and Combat Simulator (CMS)

UNRIVALLED LIFE CYCLE COST

- Competitive acquisition cost
- Reduced Maintenance and operational cost.

TECHNICAL DATA

EXTERNAL DIMENSIONS

Length (rotor turning)	14.33 m	45.92 ft
Height	3.45 m	11.34 ft
Main Rotor Diameter	11.90 m	39.00 ft
Overall Width	11.90 m	39.00 ft
Height Overall	3.40 m	11.20 ft

POWER PLANT RATING

Two Turboshaft Engines	LHTEC-T800	
Take off Power	2 x 1024 kW	2 x 1373 shp

MAUM	5000 kg	11023 lb
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CREW	2	
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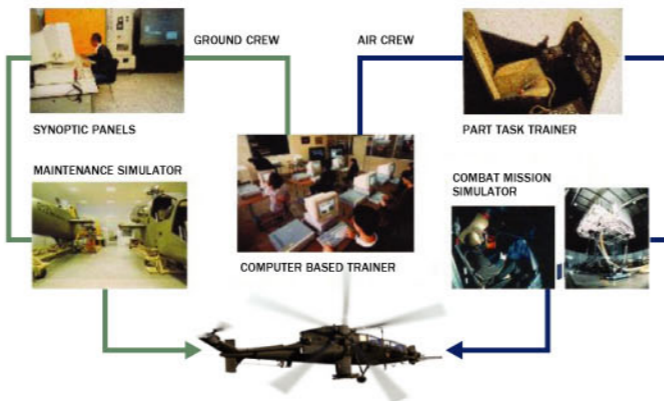
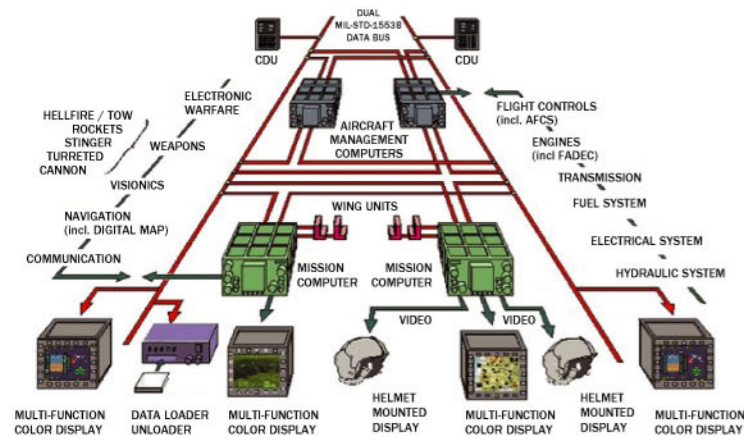
PERFORMANCE (At average mission weight, ISA - Sea Level)

Maximum cruise speed	269 km/h	145 kts
Hover IGE (TOP)	3993 m	13100 ft
Hover OGE (TOP)	3048 m	10000 ft
Rate of climb (TOP)	13.97 m/s	2750 ft/min
Vertical rate of climb (TOP)	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



FRONT COCKPIT



REAR COCKPIT