

**PROVEN PERFORMANCE,
WORLDWIDE**

AW109 POWER
Law Enforcement





AW109 Power

PROTECTING THE COMMUNITY

Airborne Law Enforcement agencies demand more from their aviation assets. The AW109 Power gives operators outstanding multi-role flexibility, high performance and leading-edge mission equipment; ensuring operational success.

Equipped with advanced avionics and a 3-axis, autopilot-coupled GPS, pilots have access to all critical navigation and flight information, which reduces workload and enhances situational awareness, even during NVG operations. The helicopter is capable of performing day and night, in single or dual-pilot IFR operations.

The AW109 Power features a city-friendly external noise signature, well below ICAO-defined limits, minimising disruption to communities and optimising stealth during operations.





INTERIOR AND COMFORT

The “Quick Convertible Interior” has been specifically design for the AW109 Power to maximise operational flexibility and quick role conversion even at field level.

Mission consoles and stretcher(s) installation are also available to extend operational applications.

Comfort can be further improved with the installation of additional equipment such as:

- Soundproofing
- Bleed air heater
- Air conditioning



MAXIMUM SAFETY AND EFFICIENCY

Whether the mission demands day or night, single or dual-pilot IFR operations, the AW109 Power delivers. With FADEC controlled twin-turbine engines and redundancy in all critical systems, the AW109 Power meets the JAR OPS 3 requirements for Category A operations at maximum take-off weight. With an external noise signature well below the ICAO defined limits, the AW109 Power is not only good for the community, it's stealthy on the mission. The AW109 Power offers operators and government agency customers precisely what they have been looking for: cost effectiveness combined with high speed, high productivity, and mission flexibility, all supported by superior customer service.

OPERATIONAL CAPABILITY

The AW109 Power is a 3 ton class helicopter combining safety attributes such as single or dual-pilot instrument flight capability with technically superior characteristics like a cruise speed of 285 km/h (154 knots). Whether the mission calls for Special Team transport, SAR, Patrol and Surveillance, EMS, Passenger Transport or any other

task, the AW109 Power's unobstructed and spacious cabin (3,5 m³ / 124 ft³) allows easy configuration changes to better meet the operational requirements. Its externally accessible separate baggage compartment is large enough to carry a multitude of mission specific equipment. All this with a ride quality far superior to any competitor.

AVIONICS

A complete package of avionics systems to allow single / dual-pilot IFR flight grants pilots situational awareness and reduced workload to favour mission effectiveness. The package includes:

- IFR COM / NAV equipment
- LCD electronic instruments
- AFCS 3-axis duplex
- Flight Director and autotrim
- GPS coupled to AFCS
- Radar altimeter
- ELT
- Moving map
- III gen. NVG compatibility
- 3rd ICS control panel
- TAS
- Weather radar
- Stormscope
- CVR/FDR



MISSION EQUIPMENT

A wide list of mission/role equipment are available to specifically configure the AW109 Power in accordance with operators' requirements.

- Dual controls
- Rotor brake
- Windshield wipers
- Reinforced windshield pilot / co-pilot
- 1000 kg and / or 500 kg fixed cargo hook
- 272 kg external hoist
- Snow skis
- Slump protection pads
- Emergency floats and life rafts
- External loudspeakers
- Wire strike protection system
- 4-cell fuel system
- 5-cell fuel system
- Engine particle separator
- Engine compartment fire extinguishers
- Baggage compartment extension (2.3 m)
- Retractable landing / search light (450 Watt)
- SX-5 or SX-16 search light
- FLIR / LLTV camera
- Tactical radios
- Video down/up link
- Rappelling kit
- Cargo service platform
- Cabin floor opening
- Pulsed chip detectors.

REASONS FOR SUCCESS

- Excellent performance including CAT A up to maximum weight
- Excellent flying qualities, high controllability and manoeuvrability
- Functional and proven cabin layout with easy accessibility from both sides
- IFR avionics package for single or dual-pilot operation including 3-axis duplex autopilot with Flight Director
- Engines monitoring and aircraft warnings (with voice annunciation) on dual liquid crystal multifunction displays (IDS)
- Great safety, "fail safe" design and redundancy of all systems
- Reduced maintenance requirements due to the wide use of reliable and "on condition" components
- Maintenance programmes at guaranteed cost available for the airframe and engines.



WORLDWIDE SUPPORT

As part of the well-established AW109 family the AW109 Power benefits from an extensive global network of customer representatives, technicians and engineers, complemented by repairs, overhaul and spare facilities around the world.

A full Level-D flight simulator maximises the effectiveness of pilot training and contributes to safety.



AW109 Power CHARACTERISTICS

Dimensions

Overall length	13.04 m	42 ft 9 in
Overall height	3.50 m	11 ft 6 in
Rotor diameter	11.00 m	36 ft 11 in

Engine Ratings (2 x Pratt & Whitney PW206C)

Take off power (5 min)	2 x 477 kW	2 x 640 shp
OEI Max contingency (2.5 min)	546 kW	732 shp

Engine Ratings (2 x Turbomeca Arrius 2K1)

Take off power (5 min)	2 x 500 kW	2 x 670 shp
OEI Max contingency (2.5 min)	560 kW	750 shp

Transmission Ratings

Take off (5 min)	671 kW	900 shp
Max continuous	671 kW	900 shp

Fuel Capacity

3-cell fuel system	605 l	160 USgal
4-cell fuel system	699 l	185 USgal
5-cell fuel system	835 l	221 USgal

Weight (MTOW)

Max Gross Weight (int. loads) ⁽¹⁾	2,850 kg	6,283 lb
Max Gross Weight (sling loads)	3,000 kg	6,614 lb
Basic Empty Weight	1,590 kg	3,505 lb

⁽¹⁾ 3,000 kg / 6,614 lb with the application of the increased Gross Weight Kit

Seating

Crew / Passenger	1 / 7
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Performance (ISA, MGW)

VNE (S.L.)	311 Km/h	168 kt
Cruise Speed (S.L.)	285 km/h	154 kt
Rate of Climb (S.L.)	9.8 m/s	1,930 ft/min
Hovering IGE	5,059 m	16,600 ft
Hovering OGE	3,596 m	11,800 ft
Service Ceiling	5,974 m	19,600 ft
OEI max service ceiling	3,993 m	13,100 ft
Maximum range ⁽²⁾	948 km	512 nm
Maximum endurance ⁽²⁾	4 h 51 min	

⁽²⁾ with 221 USgal, no reserve, @ 5,000 ft



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