

Executive Transport

AW109 Power



AgustaWestland

A Finmeccanica Company



THE BENCHMARK
IN EXECUTIVE TRANSPORT



ELEGANCE AND EXCLUSIVITY



MAXIMUM SAFETY
AND EFFICIENCY



ADVANCED TECHNOLOGY



DELIVERING SUCCESS

WORLDWIDE SUPPORT

AW109 POWER EXECUTIVE TRANSPORT

Wherever you fly,
the AW109 Power delivers

Whatever you need,
the AW109 Power adapts

THE NEW STANDARD IN EXECUTIVE TRANSPORT

The AW109 Power twin turbine helicopter from AgustaWestland is a market leader in serving the needs of the corporate community. Today's dynamic global business environment rewards those able to react to opportunities decisively and quickly. The AW109 Power enables you to meet these demands.

ELEGANCE AND EXCLUSIVITY

Designed as a new solution for a wide range of roles, the AW109 Power has taken the light twin turbine helicopter market by storm.

Since introduction in 1997 hundreds have been sold to private and corporate operators due to a unique combination of cost effectiveness combined with elegance, high speed, high productivity and flexibility.

MAXIMUM SAFETY AND EFFICIENCY

The AW109 Power with a typical capacity of 8 people, combines safety attributes such as single or dual pilot instrument flight capability and technically superior operational characteristics such as a 154 kts / 285 kph cruise speed with a spacious passenger cabin. With the added benefit of internal and external baggage space the AW109 provides superior comfort to executive and VIP passengers.

INTERIORS

The spacious cabin allows for choice in a 5 or 6 seat configuration, custom tailored and finished to the highest levels of Italian craftsmanship.

INTERIOR AND COMFORT

- Bleed air heater
- Air conditioning
- Soundproofing
- Refrigerated drawer
- Entertainment system
- Luxury cabin finishing customised to Customer requirements



ENGINES

Two engine options, either the PW 206C or the Turbomeca Arrius 2K-1, are available, providing the customer the ability to choose the best solution for his needs.

AVIONICS

In addition to the basic communications and navigation series, the avionics package can be further tailored to include additional customer specific equipment:

- KING Silver Crown or COLLINS ProLine II avionics package
- LCD Electronic Flight Instruments
- AFCS 3 axis duplex
- Flight director and autotrim
- Radar altimeter
- ELT
- GPS coupled to AFCS
- Moving map
- 3rd ICS control panel
- TAS
- Weather radar
- Stormscope
- Satellite telephone
- CVR/FDR

ADDITIONAL EQUIPMENT

- Dual controls
- Rotor brake
- Windshield wipers
- Reinforced windshield pilot/copilot
- Snow skis/Slump protection pads
- Emergency floats and life rafts
- Engine particle separator
- Engine compartment fire extinguisher
- Baggage compartment extension (2.3 m) - Pulsed chip detectors



DELIVERING SUCCESS

- Excellent performance including full 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
- Engine monitoring and aircraft warnings (with voice annunciation) on dual liquid crystal multifunction displays (IDS)
- "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 the engines

WORLDWIDE SUPPORT

As the latest model of the proven A109 family, the AW109 Power benefits from an extensive global network of customer representatives, technicians and engineers, complemented by repairs, overhaul and spares facilities throughout the world. Full Level-D flight simulators are available to enhance pilot training and maximise safety.

INTERNAL DIMENSIONS AND VOLUMES

PASSENGER CABIN

Max length	2.10 m	6 ft 11 in
Max width	1.61 m	5 ft 3 in
Max height	1.28 m	4 ft 2 in
Volume	3.50 m ³	123.60 ft ³

BAGGAGE COMPARTMENT

Max length (with optional extension)	2.30 m	7 ft 7 in
Max width	1.10 m	3 ft 7 in
Max height	0.71 m	2 ft 4 in
Volume	0.95 m ³	33.55 ft ³

PERFORMANCE (ISA, 2850 kg/6283 lb)

VNE (S.L.)	311 kph	168 kts
Max cruise speed (S.L.)	285 kph	154 kts
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
Max range ⁽¹⁾	948 km	512 nm
Max endurance ⁽¹⁾		4 hr 51 min

⁽¹⁾ with 221 USGal fuel, no reserve, @5000 ft

TECHNICAL DATA

EXTERNAL DIMENSIONS

Length (rotors turning)	13.04 m	42 ft 9 in
Length (fuselage)	11.45 m	37 ft 7 in
Width (main rotor blades)	7.80 m	25 ft 7 in
Maximum height	3.50 m	11 ft 6 in
Main rotor diameter	11.00 m	36 ft 1 in
Tail rotor diameter	1.94 m	6 ft 4 in
Main rotor tip blade ground clearance	2.45 m	8 ft 0 in
Belly ground clearance	0.40 m	1 ft 4 in
Cabin floor height	0.42 m	1 ft 5 in

ENGINE RATING (2 x Pratt & Whitney PW206C)

Take off power (5 min)	2 x 477 kW	2 x 640 shp
Maximum continuous power	2 x 423 kW	2 x 567 shp
OEI Max contingency (2.5 min)	546 kW	732 shp
OEI Max continuous power	500 kW	670 shp

ENGINE RATING (2 x Turbomeca Arrius 2K-1)

Take off power (5 min)	2 x 500 kW	2 x 670 shp
Maximum continuous power	2 x 425 kW	2 x 570 shp
OEI Max contingency (2.5 min)	560 kW	750 shp
OEI Max continuous power	500 kW	670 shp

TRANSMISSION RATING

Take off (5 min)	671 kW	900 shp
Max continuous	671 kW	900 shp
OEI max contingency (2.5 min)	478 kW	640 shp
OEI max continuous power	417 kW	560 shp

WEIGHT

Max Gross Weight (int. loads) ⁽²⁾	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

⁽²⁾ 3,000 kg / 6,614 lb with the application of the increased Gross Weight Kit

FUEL CAPACITY

3 cell fuel system	605 litres	160 USG
4 cell fuel system	699 litres	185 USG
5 cell fuel system	835 litres	221 USG

CREW

Pilot / Passengers	1 / 7
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