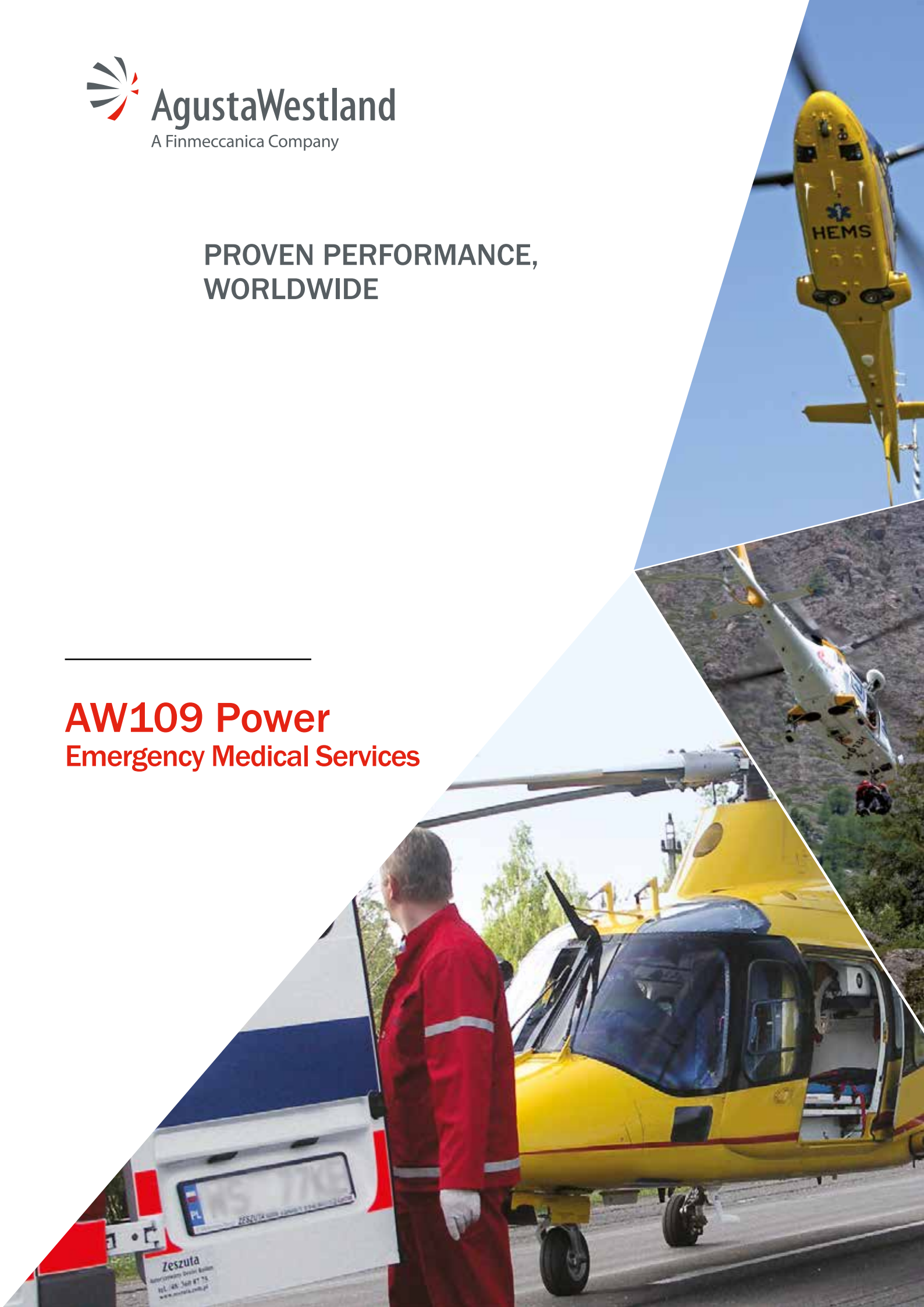


**PROVEN PERFORMANCE,  
WORLDWIDE**

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**AW109 Power**  
**Emergency Medical Services**





**AW109**Power

## BRINGING CARE TO THE PATIENT

The AW109 Power EMS is a fast, modern light twin-engine helicopter, ideally suited to demanding Emergency Medical Services (EMS) missions.

The high performance airframe provides excellent handling and safety characteristics, including high cruise speed (285 km/h), Cat. A, Class 1 capability, stable hover and a high rate of climb in twin and single engine conditions. The platform supports single or dual pilot IFR flight operations.

The cabin provides a large, flexible working environment with low noise and vibration for patient and EMS crew comfort.

The AW109 Power enables aero-medical operations at a low acquisition and operating costs.





## MAXIMUM SAFETY AND EFFICIENCY

The demands of the worldwide aero-medical industry have evolved. Basic patient transport missions have become sophisticated 'medical support' operations, in increasingly complex environments within a more stringent regulatory system. Advanced avionics and mission systems reduce pilot workload and built-in redundancy of all major systems and excellent One Engine Inoperative (OEI) performance maximise safety in all conditions.

## EMS FEATURES

- Modular provision for medical equipment installation
- Litter support at 80 cm from the ground
- Accommodation for 2 easily-embarkable stretchers
- Storage box for medical equipment and oxygen
- Reversible co-pilot seat
- Accommodation up to 4 medical assistants (with 1 stretcher)
- Unobstructed regular shape passenger cabin
- Large skin-flush sliding door
- High ground clearance and rugged landing gear for unprepared terrain operation
- 2.3 m long separated baggage compartment.

## AVIONICS

- COM / NAV systems
- AFCS 3 axis duplex
- Flight Director and Autotrim
- Radar Altimeter
- III gen. NVG compatibility
- GPS coupled to AFCS
- Moving map
- LCD Electronic Flight Instruments
- ELT
- 3rd ICS control panel
- TAS
- Weather Radar
- Stormscope
- CVR / FDR.

## ADDITIONAL EQUIPMENT

- Dual controls
- Rotor brake
- Windshield wipers
- Reinforced pilot / co-pilot windshield
- 272 kg external hoist
- Dual cargo hook
- Search lights
- Snow skis
- Slump protection pads
- Emergency floats and life rafts
- External loudspeakers
- Wire strike protection system
- Engine particle separator
- Engine compartment fire extinguisher
- FLIR / LLTV camera
- Pulsed chip detectors.

## CABIN FLEXIBILITY

The AW109 Power features a spacious 3.5 m<sup>3</sup> (123 ft<sup>3</sup>) cabin, completely separated from the cockpit. Accommodation for up to 2 stretchers and 2 or 3 medical attendants with full patient access and separate baggage space, accessible from inside and outside the cabin is provided. The AW109 provides an effective working space for crew with low noise

and vibration and a comfortable environment for the patient.

## INTERIOR AND COMFORT

Availability of:

- Bleed air heater
- Air conditioning
- Soundproofing
- Contributes to enhance operational comfort.





## DELIVERING SUCCESS

- Excellent performance, including CAT A capability 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 demands, 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

The AW109 Power EMS benefits from an extensive global network of customer representatives, technicians and engineers, complemented by repair, overhaul and spares facilities throughout the world. Full Level-D flight simulators are available for pilot training and maximised safety.



## AW109 Power EMS 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 2K-1)

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

### Weight (MTOW)

Max Gross Weight (int. loads) <sup>(1)</sup>	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

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

### Seating

Crew / Passenger	1 or 2 pilots with 2 stretchers and 2 medical attendants
	1 or 2 pilots with 1 stretcher and 3 medical attendants

### Performance (ISA, MGW)

VNE (SL)	311 km/h	168 kt
Cruise Speed (SL - MCP)	285 km/h	154 kt
Rate of Climb (SL - MCP)	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
Range <sup>(2)</sup>	780 km	420 nm
Endurance <sup>(2)</sup>	4 h	

<sup>(2)</sup> with 182 kg USgal usable fuel - no reserve - @ 5,000 ft



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