

AgustaWestland AW139
Emergency Medical Services





AW139

SIMPLY NO RIVALS

THE BENCHMARK FOR EMERGENCY RESPONSE

Designed specifically to meet the multi-mission demands of a new world, the AW139, a member of the AgustaWestland Family, surpasses all other intermediate twin-engine helicopters in capability, speed, range and versatility.

The AW139 can be equipped with either a dedicated EMS interior or with quick change self contained units and MEDEVAC equipment for maximum flexibility. Furthermore the avionic system reduces pilot workload, allowing the crew to concentrate on EMS operations.



SUPERIOR PERFORMANCE IN ALL CONDITIONS

The AW139 delivers best-in-class performance with a cruise speed of up to 165 knots / 306 kph, a range in excess of 500 nm / 927 km, endurance of 5 hours, and superior hover performance. The AW139's exceptional OEI capability brings added confidence during rapid deployment of personnel. With its power reserve, the AW139 assures Category "A" (Class 1) superior performance from a helipad (elevated or at ground level) at maximum take-off weight. Excellent performance is granted for operations worldwide, even in extreme hot-and-high environments or harsh conditions.

SAFETY BUILT-IN

Engineered to the highest safety standards, the AW139 is constructed with energy-absorbing landing gear, fuselage and seats all designed to meet the rigorous JAR / FAR 29 standards. In addition, the cockpit features excellent pilot visibility and redundant flight systems for reduced workload. High main and tail-rotor ground clearance provides added safety for crew, operators and maintenance teams whilst on the ground. High installed power allows easy handling in all flight conditions.

WORLWIDE SUPPORT

The AW139 benefits from an extensive global network of customer representatives, technicians and engineers, complemented by repair, overhaul and spares facilities throughout the world. Four level-D full flight simulators are already in service to maximise pilot training contributing to safety.



MORE ROOM TO WORK

With the largest passenger cabin in its class, the AW139 delivers abundant working space, maximum mission flexibility to support multiple medical treatment and casualty evacuation requirements. The AW139 can be configured with transverse or longitudinal stretcher layouts, depending on the operator's preferences. Large sliding doors on each side provide clear access to the unobstructed cabin which benefits from a flat floor to allow recovery of stretchers in flight.

The cabin provides 8 m³ / 283 ft³ for passengers and equipment, plus an additional 3.4 m³ / 120 ft³ of baggage compartment space that is accessible from outside the helicopter.

Cabin length	2.70 m	8.86 ft
Cabin Width	2.10 m	6.89 ft
Cabin height	1.42 m	4.66 ft





EMS CAPABILITY BEYOND THE NORM

- Long range endurance for extended search patrols
- Maximised all weather operation, with capability for flight into known ice conditions
- Advanced role equipment to cater for all situations
- Total cabin versatility - layouts and stowage
- Ease of access and egress
- Low operating costs - modern equipment optimises TBO & Retirement Lives
- Multi-role capability for EMS re-configuration
- Superior OEI Capability for safe operations from sea-level up to 13,500 ft and CAT A / Class 1 at MTOW
- Next generation safety - design, construction, operability and crashworthiness

ADVANCED TECHNOLOGY

State-of-the-art avionics and large displays work together with the 4-axis digital autopilot with auto hover and full digital electronic engine control (FADEC) to minimise pilot workload. The AW139's ergonomic design, excellent handling characteristics and low vibration levels further reduce pilot fatigue and enhance crew comfort.



AW139 CHARACTERISTICS

Dimensions

Overall length (1)	16.66 m	54 ft 8 in
Overall height (1)	4.98 m	16 ft 4 in
Rotor diameter	13.8 m	45 ft 3 in

Propulsion

Powerplant (2) Pratt & Whitney PT6C-67C Turboshfts with FADEC

Engine Ratings

AEO Take off power	2 x 1,252 kW	2 x 1,679 shp
OEI 2.5 min contingency power	1,396 kW	1,872 shp

Weights (MTOW)

Internal load (2)	6,400/6,800 kg	14,110/14,991 lb
External Load	6,800 kg	14,991 lb
Typical mission equipped weight	4,400 kg	9,700 lb

Capacity

Crew	1-2
Passenger seating	Up to 15 (passenger transport configuration)
Stretchers	2 stretchers + up to 5 medical attendants 4 stretchers + up to 5 medical attendants
Baggage compartment	3.4 m ³ 120 ft ³

Performance (ISA, S.L., MGW)

VNE	310 km/h	167 kt
Cruise Speed	306 km/h	165 kt
Rate of Climb	10.9 m/s	2,140 ft/min
HOGE	2,478 m	8,130 ft
Service Ceiling	6,096 m	20,000 ft
OEI service ceiling	3,536 m	11,600 ft
VTOL cat. A	945 m	3,100 ft
Maximum range (3)	1,061 m	573 nm
Maximum endurance (3)	5 h 13 min	

(1) Rotors turning

(2) An optional MTOW (internal) of 7,000 kg (15,430 lb) is available as a kit

(3) No reserve, with auxiliary fuel tank - subject to selected interior applicability



Leonardo - Società per azioni
Registered Head Office:
Piazza Monte Grappa, 4 - 00195 Rome - Italy
Tel. +39 06 324731 - Fax +39 06 3208621
Leonardo Helicopters
Head Office:
Via Giovanni Agusta, 520 - 21017 Cascina Costa di Samarate - Italy
Tel. +39 0331 229111



© Leonardo - Società per azioni

This document contains information that is proprietary to Leonardo - Società per azioni and is supplied on the express condition that it may not be reproduced in whole or in part, or used for manufacture, or used for any purpose other than for which it is supplied.

leonardocompany.com