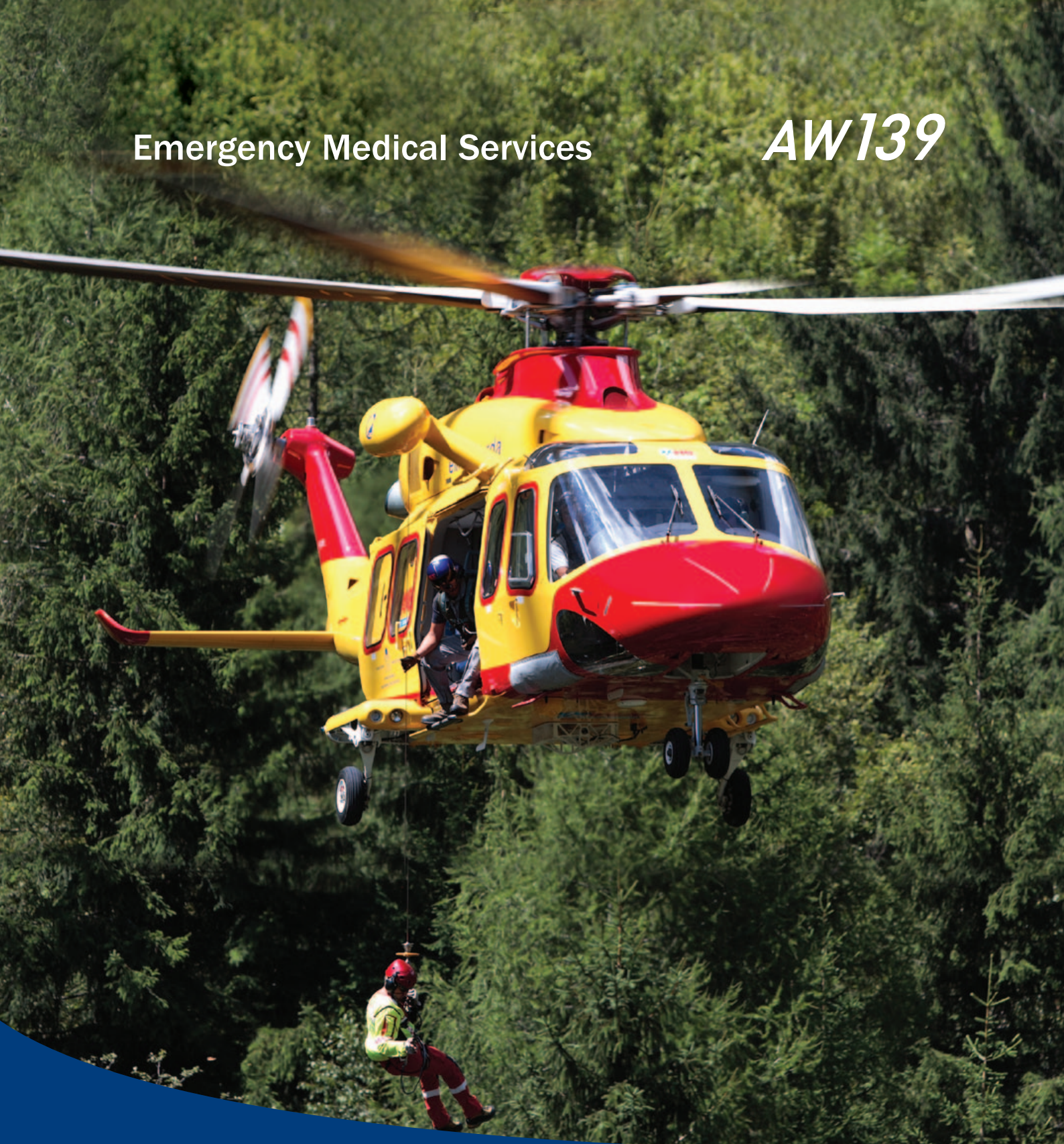


Emergency Medical Services

AW139



AgustaWestland
A Finmeccanica Company



THE NEW BENCHMARK
FOR EMERGENCY RESPONSE



SUPERIOR PERFORMANCE
UNDER ALL CONDITIONS



ADVANCED TECHNOLOGY



SAFETY IS BUILT IN



MORE ROOM TO WORK

WORLDWIDE SUPPORT

NEW GLOBAL CHALLENGES NEW HELICOPTER

- The new reference for Emergency Medical Services
- Superior OEI (One Engine Inoperative) capability for safe operations
- The best-in-class performance in any condition
- Largest cabin in its class for maximum flexibility

THE NEW BENCHMARK FOR EMERGENCY RESPONSE

Designed specifically to meet the multi-mission demands of a new world, the AW139 surpasses all other medium 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. With the AW139, your search for a superior helicopter is now over.

SUPERIOR PERFORMANCE UNDER ALL CONDITIONS

The AW139 delivers best-in-class performance with a cruise speed 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.

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.

SAFETY IS 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.



MORE ROOM TO WORK

With the largest passenger cabin in its class, the AW139 delivers abundant working space, maximum mission flexibility to support cabin FLIR station operation, 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 with a flat floor and allow recovery of stretchers in flight.

The cabin provides 8 cubic metres/283 cubic feet for passengers and gear, plus an additional 3.4 cubic metres/120 cubic feet of baggage compartment space that is accessible from both the inside of the passenger compartment and 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



- High tail rotor ground clearance
- 4 Blade canted tail rotor
- Ice detection & protection (optional)
- 5 Blade fully articulated main rotor system
- Large unobstructed cabin
- Excellent visibility
- Day/night IFR all weather operations
- Crashworthy crew/passenger seats
- Four bag flotation system (optional)
- Two large "Plug in" type sliding doors (5.5 ft/1.68 m wide)
- Twin 17-man external life rafts (optional)
- Large baggage compartment accessible from the cabin and externally from both sides



EMS CAPABILITY BEYOND THE NORM

- Long Range endurance for extended search patrols
- Maximised all weather operation, with capability for flight into icing conditions now under development
- 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 11,600 ft (CAT A/Class 1 at MTOW)
- Next generation Safety - design, construction, operability and crashworthiness

WORLDWIDE SUPPORT

As the newest arrival to the AgustaWestland product range the AW139 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 simulator, training is available for the AW139.

AW139 TYPICAL EMS MISSION EQUIPMENT

- Single/Dual rescue hoist (272 kg, 90 m cable length)
- Cargo hook (2200 kg)
- SX 16 search light
- Weather/Search radar
- External cameras
- External lighting for night rescue
- TCAS (Traffic & Collision Avoidance System)
- HUMS (Health & Usage Monitoring System)
- HFDM (Helicopter Flight Data Monitoring)
- EGPWS (Enhanced Ground Proximity Warning System)
- Emergency floats and lift rafts
- VHF/FM tactical radio
- Auxiliary fuel tanks
- Anti-icing system
- Different stretchers layout



AW139 CHARACTERISTICS

(The AW139 is a rebranding of the AB139 which is type certificated by EASA, as the primary certification authority, under Type Certificate no. R006)

DIMENSIONS

Length overall ⁽¹⁾	16.66 m	54.66 ft
Overall height ⁽¹⁾	4.98 m	16.36 ft
Rotor diameter	13.8 m	45.28 ft

PROPULSION

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

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

WEIGHT

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

CAPACITY

Flight crew	1 - 2	
Passenger seating	Up to 12 (in passenger transport configuration)	
Stretchers	2 stretchers + up to 5 medical attendants	
	4 stretchers + up to 5 medical attendants	
Baggage compartment	3.4 cu m	120 cu ft

⁽¹⁾ Rotors turning

⁽²⁾ 6,800 kg MTOW with the application of the "Optional Bollettino Tecnico N. 139-140"

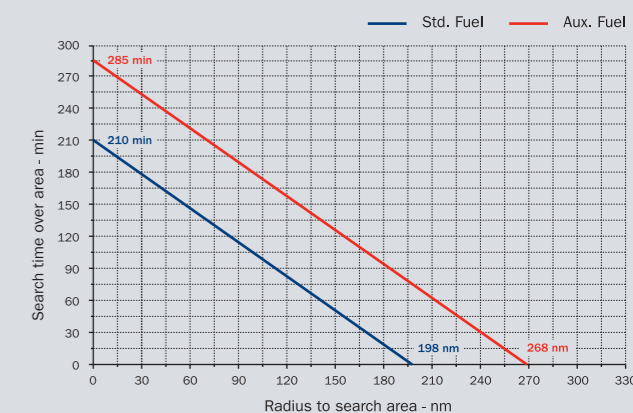
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PERFORMANCE (ISA, S.L., MGW)

VNE	310 km/hr	167 kt
Cruise speed	306 km/hr	165 kt
Rate of climb	10.9 m/s	2,140 ft/min
HOGF	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* (no reserve)	1,061 km	573 nm
Maximum endurance* (no reserve)	5 hrs 13 min	

*With auxiliary fuel



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