

LEONARDO HELICOPTERS

AW139

Emergency Medical Services (EMS)



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Where Care Takes Flight

SIMPLY NO RIVALS

Designed to provide fast and safe incident response, the AW139 surpasses all other intermediate twin-engine helicopters in capability, speed, range and flexibility.



LEONARDO HELICOPTERS

The AW139 gives operators access even to confined areas, with a design developed to provide the highest clearance of main and tail rotor blades in its class, ensuring a safe environment for ground operations.

The spacious and versatile cabin allows efficient patient care and can be equipped with either a dedicated EMS interior or with quick-change self-contained units for MEDEVAC equipment.

AW139 - Emergency Medical Services



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SUPERIOR PERFORMANCE IN ALL CONDITIONS

The AW139 delivers the best care anywhere and anytime, thanks to its capacity to operate in all-weather conditions, day and night, and its high speed, ensuring superior response and mission effectiveness when every minute counts. With the highest single engine power reserve in its class, the AW139 also assures superior Category "A" (Class 1) performance from a helipad (elevated or at ground level) in the most demanding conditions.

ADVANCED TECHNOLOGY AND SAFETY

Engineered to the highest safety measures, the AW139 features energy-absorbing landing gear, fuselage and seats all designed to meet the rigorous JAR/FAR 29 standards. The night vision goggles (NVG) compatible glass cockpit combines latest-generation avionics systems like 3D Smart View System (SVS) with exceptional external visibility, maximising situational awareness and minimising pilot workload during day and night operations, increasing operational safety.



CAPABILITY BEYOND THE NORM

- Four-axis Automatic Flight Control System (AFCS) with Hover Mode
- Traffic Collision Avoidance System (TCAS II)
- Weather or Weather-Search Radar
- Enhanced Vision System (EVS)
- Obstacle Proximity LiDAR System (OPLS)
- Full Ice Protection System (FIPS)
- Slump Pads/Snow Skis
- Rescue Hoist (Single or Dual)
- Enhanced Adaptive Anti-Vibration Control System (AVCS).



PERFORMANCE (ISA, MGW)

MAX CRUISE SPEED

(@5,000 FT, MCP)

306 km/h (165 kt)

HIGE (TOP)

4,672 m (15,327 FT)

HOGE (TOP)

2,476 m (8,123 FT)

MAXIMUM RANGE

(@5,000 FT) ⁽¹⁾

1,187 km (641 NM)

MAXIMUM ENDURANCE

(@5,000 FT) ⁽¹⁾

5 h 38 min

⁽¹⁾ with auxiliary fuel - No reserve

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MORE ROOM TO WORK

The AW139 ensures maximum mission flexibility to support immediate in-flight treatment and MEDEVAC requirements.

With the largest unobstructed cabin in its class, it can accommodate up to 2 stretchers (longitudinally or transversally) and up to 5 medical attendants, guaranteeing sufficient space for 360 degrees' access to the patient and providing all the equipment for immediate in flight treatment.

The cabin can also accommodate up to 3 stretchers and up to 8 attendant seats in its MEDEVAC configuration.

The large sliding doors on each side are designed for easy stretcher loading, both on ground and in flight.

On top of the 8 m³/283 ft³ cabin, an additional 3.4 m³/120 ft³ baggage compartment, optionally accessible from the cabin, is available for equipment storage.



UP TO 2 + UP TO 5

stretchers

medical attendants

360°

patient access in cabin

FULL SUITE

of life-support equipment

MAXIMUM FLEXIBILITY

in emergency situation

2.70 M

Cabin length (8 FT 10 in)

2.10 M

Cabin width (6 FT 11 in)

1.42 M

Cabin height (4 FT 08 in)

1.60 M

Passenger door width (5 FT 3 in)

CHARACTERISTICS

AW139		
WEIGHTS (MGW)	→ Max Take Off Weight	6,400 kg (14,110 lb)
	→ Increased Gross Weight	6,800 kg (14,991 lb)
	→ Increased Gross Weight ⁽¹⁾	7,000 kg (15,432 lb)
PROPULSION	Powerplant	2 x Pratt & Whitney Canada PT6C-67C engines with FADEC
DIMENSIONS	→ Overall length ⁽²⁾	16.66 m (54 ft 08 in)
	→ Overall height ⁽²⁾	4.98 m (16 ft 04 in)
	→ Rotor diameter	13.80 m (45 ft 03 in)
	→ Main rotor tip blades clearance	3.01 m (9 ft 11 in)
	→ Tail rotor tip blades clearance	2.34 m (7 ft 08 in)

(1) Available as a kit
(2) Rotors turning



Leonardo Helicopters' Customer Support & Training team delivers efficient logistics and maintenance to boost helicopter availability and reduce lifecycle costs. Our 24/7 global network ensures reliable support for operators worldwide. Through Training Academies and a global network, we offer tailored programs for flight crews, operators, ground staff, and maintainers, providing optimized after-sales support and solutions.

TRAINING SOLUTIONS

In HEMS operations, expertise saves lives. Our comprehensive HEMS Training programs prepare pilots, technical crew, hoist operators, rescue personnel, and medical crews for safe and effective emergency medical service, day and night, including NVIS operations.

Combining Full Flight Simulation, mission-based training and immersive virtual environments, crews train in realistic operational scenarios that build confidence, sharpen decision-making, and strengthen teamwork.

By enabling integrated multi-crew training, MITHOS enhances coordination and situational awareness across the mission, helping reduce risk and improve operational effectiveness.



SUPPORT SOLUTIONS

Leonardo Helicopters delivers seamless, continuous global support through an extensive maintenance, repair, and overhaul network, enhanced by dedicated field service representatives both at our facilities and directly at customer sites.

From spare parts and repairs to maintenance and advanced solutions, customers benefit from a complete service ecosystem—available individually or as integrated support—designed to maximize logistics efficiency and ensure optimal helicopter availability.

Dedicated and flexible Service Plans are tailored to meet specific needs, covering components, labor, and fixed-cost-per-flight-hour options with guaranteed service levels. The 24/7 Fleet Operations Centres (FOC) further enhances support by providing technical and logistical assistance to fleets worldwide.

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