



LEONARDO HELICOPTERS

AW189

ENERGY SERVICES



AW189

LATEST GENERATION CAPABILITIES

ALL WEATHER WORKHORSE

Belonging to the AWFamily of products the AW189 is designed for long range, all-weather, day and night, deep water missions typical of Offshore operations, maximising operational capability and minimising cost. The AW189 features a spacious, constant section cabin and exceeds the airworthiness requirements of the most recent EASA/FAA amendments in the transport category, qualifying the aircraft for the most stringent guidelines of the International Association of Oil&Gas Producers (IOGP). Leveraging on the open-architecture avionics, it complies with the latest Performance Based Navigation standard such as RNP 0.3 in all phases of flight, including Authorization Required (AR) approach, LPV and Automatic Oil Rig approach. The wide spectrum of Offshore operations is further enhanced with the 'Extended Range' fuselage variant, which allows to reach deepwater platforms usually intended for heavy class helicopters.





DESIGNED AROUND SAFETY

- Structural crashworthiness integral to the design of the airframe, fuel system and seats, a reinforced windscreen and optimum position of critical controls, which mitigates the consequences of a bird strike
- Industry-leading 50 minutes 'dry-run' capability on the main gearbox
- High main rotor clearance ensures a safe environment for ground operations and maintenance crew, while the standard tail fin camera provides the crew with enhanced situational awareness
- Seats aligned to large push-out windows (Exceeding Type IV) to maximise egress speed even for Extra Broad (XBR) passengers. Flotation system is certified for ditching up to Sea State 6 and life rafts are positioned for access directly from the cabin or from outside
- Cockpit design incorporating latest generation, advanced situational awareness technologies (HTAWS with dedicated offshore modes according to CAA CAP 1519, TCAS II, ADS-B Out, Flight Data Monitoring) which reduce crew workload
- Cat. A Performance Class 2 enhanced procedure that ensures the same levels of safety as a Performance Class 1.

READY FOR MISSION

Typical Offshore Passenger Transport completion comprises:

- 16 individual crashworthy seats with separate four point safety belts and no more than two passengers per emergency exit
- Environmental Control System – Air Conditioning
- External life rafts (2 x 21) with emergency beacon
- Emergency floats (up to Sea State 6 ditching capability)
- Helicopter Emergency Exit Light System (HEELS)
- ADELTA
- HUMS and Flight Data Monitoring (FDM) as standard
- Weather radar
- Internal auxiliary fuel tanks (“Under Floor” and “Transversal”).

Further available options comprises Extended Range fuel system with pressure refueling, a wide range of communication systems (HF, VHF/FM, SATCOM with flight following) as well as single/dual hoist, searchlight, direction finder, nose-mounted EO/IR camera for Emergency Response Services.





KEY DISTINCTIVE FEATURES

- Fully articulated main and tail rotors
- Fully integrated avionics system, with four 8" x 10" color active matrix liquid crystal displays (AMLCD)
- Wide temperature envelope (-40 °C to +55 °C), with proven experience in cold environments thanks to the Limited or Full Ice Protection System (FIPS) kit
- 60 kW Full Auxiliary Power Unit (APU) as baseline equipment
- HTAWS (with dedicated offshore modes according to CAA CAP 1519) and TCAS II
- Power plant featuring dual channel FADEC, heat engine air intakes and integrated Inlet Particle Separator (IPS) as baseline
- Integrated or External Floats and Rafts
- High Time Between Overhaul (TBO) and Retirement Lives of major components
- Lower fuel consumption and CO2 emissions compared to heavier class platforms or direct competitors





A FLEXIBLE CABIN SPACE

The AW189 benefits from the widest cabin in its class, featuring:

- Large, flat floor space, with accommodation for up to 19 passengers disposed on four rows (16 passengers in IOGP compliant layouts)
- Seat rows aligned with emergency exit windows, with different internal layouts granting easy and fast conversion for maximum flexibility, for example allowing baggage stowage in the main cabin in 16 passengers in IOGP compliant layouts
- Capability to rapidly install equipment for Limited SAR (Lim. SAR) operations
- Large sliding doors for simultaneous and quick passenger entry and egress from all four seat rows
- Multiple modular solutions are available for baggage storage, starting with the high-capacity baggage compartment (with accessibility from the cabin*), with the possibility of adding internal cabin bins or an external luggage extension in order to satisfy any customer needs.

* available only without transversal fuel tank installed or on the extended range fuselage variant

Cabin volume

11.20 m³ (395.5 ft³)

Baggage volume

2.40 m³ (85.0 ft³)

Capacity

Crew 1 to 2

Passengers 16 in full IOGP compliant layout or
Up to 19 in high density layout



AW189 CHARACTERISTICS

Weights (MTOW)

Max Gross Weight	8,300 kg	(18,298 lb)
Increased Gross Weight	8,600 kg	(18,960 lb)

Propulsion

2 x **General Electric CT7-2E1** Turboshafts with FADEC (2,000 shp class each) and 1 x Safran e-APU (60 kW)

Dimensions

Overall length ⁽¹⁾	17.57 m	(57 ft 8 in)
Overall height ⁽¹⁾	5.07 m	(16 ft 7 in)
Rotor diameter	14.60 m	(47 ft 11 in)

⁽¹⁾ Rotors turning

Performance (ISA, MGW)

Max CruiseSpeed (SL, MCP)	287 km/h	(155 kt) TAS
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Maximum Range (SL)

• Standard Fuselage	952 km	(514 nm)
• Extended Range Fuselage	1,198 km	(647 nm)

Maximum Endurance (SL)

• Standard Fuselage	4 h 52 min
• Extended Range Fuselage	6 h 9 min



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.



SUPPORT SOLUTIONS

Leonardo Helicopters provides global, continuous support through an extensive MR&O network and field service reps at both our facilities and customer sites. Our 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 Centre (FOC) offers technical and logistical support for fleets worldwide. Customers can access a full range of services, from spare parts and repairs to maintenance and advanced solutions, either individually or through integrated support. We ensure comprehensive material logistics and helicopter availability.

TRAINING & SIMULATION SOLUTIONS

We provide a comprehensive training system with advanced synthetic training devices and a variety of courses for aircrew, rear crew and ground crew. Customers benefit from a 360° program combining live and virtual classrooms, practical training, in-flight activities, and in-house devices, guided by expert instructors.

Using AI for real-time data analysis, we offer personalized, adaptive learning paths that improve students ability to handle diverse scenarios. Our expanding simulation capabilities include in-house developed devices like MITHOS, for realistic hoist operations, which is now connected with Full Flight Simulators (FFS) so that pilot and hoist operator can conduct mission training together, communicating and coordinating actions as if they are operating the same helicopter.

DIGITAL SERVICES

We rely on flight data analysis, mission support and maintenance predictability as key elements of our strategy to develop value-added services for customers. The company offers a wide range of digital services to support the global fleet, including real-time technical assistance, distance learning, Health Usage Monitoring Systems (HUMS) and customized "turn-key" solutions.



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