

# AW189

HELICOPTERS DIVISION

## Energy Services



 **LEONARDO**

  
**AW189**

## **LATEST GENERATION CAPABILITIES**

### **EXTENDING THE REACH**

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 major O&G companies. 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 AW189, equipped with new Safran Aneto-1K engine, will extend the range of operations of the aircraft to high altitude and high temperature conditions.





## SAFETY BY DESIGN

- 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.

## 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 JTSO 126 beacon
- Emergency floats (up to Sea State 6 ditching capability)
- Helicopter Emergency Exit Light System (HEELS)
- ADEL T JTSO 126
- ADS-B Out, HUMS and Flight Data Monitoring (FDM) as standard
- TCAS II
- 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 and cargo hook for Limited SAR operations.





## **CAPABILITY BEYOND THE NORM**

- › Fully articulated main and tail rotors
- › Fully integrated avionics system, with four 8" x 10" color active matrix liquid crystal displays (AMLCD)
- › HTAWS (with dedicated offshore modes according to CAA CAP 1519) and TCAS II
- › Weather Radar
- › Landing and taxiing lights
- › Emergency Floats (up to Sea State 6 ditching capability)
- › External Life Rafts
- › Wide sliding doors
- › ADELT



## SPACE AND ACCESSIBILITY

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
- 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 seat layout
- 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
- High capacity baggage compartment, accessible from both helicopter's sides and including composite protective panels to allow carrying unrestrained baggage.



**11.20 m<sup>3</sup>**

Cabin volume (395.5 ft<sup>3</sup>)

**2.40 m<sup>3</sup>**

Baggage volume (85.0 ft<sup>3</sup>)

**Capacity**

Crew 1 to 2

Passengers up to 19

# CHARACTERISTICS

## WEIGHTS (MTOW)

- › Max gross weight 8,300 kg 18,298 lb
- › Optional gross weight <sup>(1)</sup> 8,600 kg 18,960 lb

## PROPULSION

- › 2 x General Electric CT7-2E1 Turboshfts with FADEC (2,000 shp class each) and 1 x Safran e-APU (60 kW)  
or
- › 2 x Safran Aneto-1K Turboshfts with FADEC (2,500 shp class each) and 1 x Safran e-APU (60 kW)

## ENGINE RATINGS

### General Electric CT7-2E1

- › Take-off power (5 min) 2x1,479 kW 2x1,983 shp
- › Maximum Continuous Power 2x1,395 kW 2x1,870 shp

### Safran Aneto-1K

- › Take-off power (5 min) 2 x 1,905 kW 2 x 2,553 shp
- › Maximum Continuous Power 2 x 1,807 kW 2 x 2,422 shp

## CAPACITY

- › Crew 1-2
- › Passengers Up to 19 (16 for OGP standard)

## DIMENSIONS

- › Overall length <sup>(2)</sup> 17.57 m 57 ft 8 in
- › Overall height <sup>(2)</sup> 5.07 m 16 ft 7 in
- › Rotor diameter 14.60 m 47 ft 11 in

<sup>(1)</sup> Max take-off weight for AW189K version

<sup>(2)</sup> Rotors turning



Leonardo Helicopters is making significant changes to the provision of its Customer Support and Training services. Leonardo Helicopters has launched a companywide "TeamUp" initiative spanning the entire breadth of the Support and Training delivery activity.



## SUPPORT SOLUTIONS

The Leonardo Helicopters Customer Support & Training worldwide network delivers an extensive range of support solutions that are tailored to meet the Customers' unique requirements ranging from routine spares & repairs, component availability solutions and frontline manpower support through to fully Integrated Operational Support solutions.

## OUR MOBILE APPS - STAY TUNED!



AW TeamUP



AW Training



Heliwise



Skyflight Mobile

## TRAINING SOLUTIONS

Leonardo Helicopters designs, develops and delivers integrated training solutions and services for our helicopters in the live and virtual training domains, from type conversion through to full operational and mission capability.

## ADVANCED SERVICES

Leonardo Helicopters continues to focus and improve the Customer's experience, leveraging on innovation and latest technology, to deliver the best services and solutions in its class. Skyflight Mobile and Heliwise represent our key advanced services, which provide Customers with cutting-edge solutions to perform flight planning activities and HUMS data analysis.



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