

AgustaWestland AW169
Offshore



AW169

NEXT GENERATION VERSATILITY

DELIVERING PERFORMANCE

The AW169 is the brand new 4.5 tonnes class twin-engine helicopter. Ideally suited to the demanding Offshore mission, capable of carrying up to 10 passengers in comfort and safety, the platform exceeds the latest regulatory requirements (EASA/FAA Part 29, JAR OPS 3/EU-OPS).

Based on the operationally proven, market-leading AW139 platform and belonging to the AgustaWestland 'Family' of products (with AW189 and AW139), mixed-fleet operators can leverage the advantage of a common design philosophy across platforms.





SUPERIOR PERFORMANCE WORLDWIDE

The AW169 is powered by 2 powerful Pratt & Whitney Canada PW210A engines with FADEC, delivering high speed which minimizes time airborne for passenger comfort and delivers superior performance in hover. The advanced airframe and rotor aerodynamic design provides superior performance and Cat. A PC 1 take-off and landing capability in any condition, including hot & high.

SAFETY BY DESIGN

The AW169 meets the most stringent safety standards imposed by civil and government bodies, including the latest FAA and EASA Part 29 certification and crashworthiness specifications. Coupled with designed-in redundancy of all critical systems and functions is a certified 30 minutes plus main gear box 'dry-run' capability. The helicopter and its optional role equipment have been developed to comply with the most rigorous standards required by oil and gas operators and their customers. People on the ground near the helicopter are safeguarded by the high main and tail rotors ground clearance. State-of-the-art avionics and mission systems have been optimized for safe, low pilot work load. Large displays work together with the 4-axis digital autopilot with auto hover and full digital electronic engine control (FADEC) Dual Channel to minimize pilot workload. The AW169's ergonomic design, excellent handling characteristics and low vibration levels further reduce pilot fatigue and enhance passenger comfort.

OPERATIONAL EFFECTIVENESS

Exceptional external visibility and leading-edge avionics maximise pilot's situational awareness, critical for safe flight in demanding Offshore operations. AW169 benefits from excellent external lateral and downward pilot visibility, coupled with a comprehensive multi-sensor avionic suite, compliant with the latest Communication Navigation Surveillance (CNS) requirements enabling operations in IMC Day & Night.

LARGEST CABIN IN ITS CLASS

- Large 6.3 m³ cabin can be configured to optimize passenger comfort
- A separate 1.4 m³ baggage compartment allows passengers maximum cabin space during flight
- Easy accessibility is ensured through two wide 1.60 m (W) X 1.20 m (H) sliding doors. Further emergency exit is provided via pilot and cabin windows both exceeding type IV Requirements. There are never more than two passengers per emergency exit.

Cabin length	2.77 m	9 ft 1 in
Cabin width	2.05 m	6 ft 9 in
Cabin height	1.32 m	4 ft 4 in





OFFSHORE MISSION SYSTEMS

AW169 can be fitted with a range of equipment and systems, compliant with the most rigorous standards required by oil and gas operators, including:

- HUMS (Health and Usage Monitoring System)
- HFDM (Helicopter Flight Data Monitoring)
- HTAWS (Helicopter Terrain Avoidance Warning System)
- TCAS II (Traffic and Collision Avoidance System)
- HEELS (Helicopter Emergency Exit Light System)
- Emergency floatation and life rafts (up to sea state 6 ditching capability)
- SATCOM with Flight Following
- ADELTA
- ADS-B OUT (Automatic Dependent Surveillance-Broadcast)
- Weather /search radar
- Synthetic Vision System
- Digital map
- Cargo hook
- Enhanced Vision System
- HF radio
- Retractable landing gear.

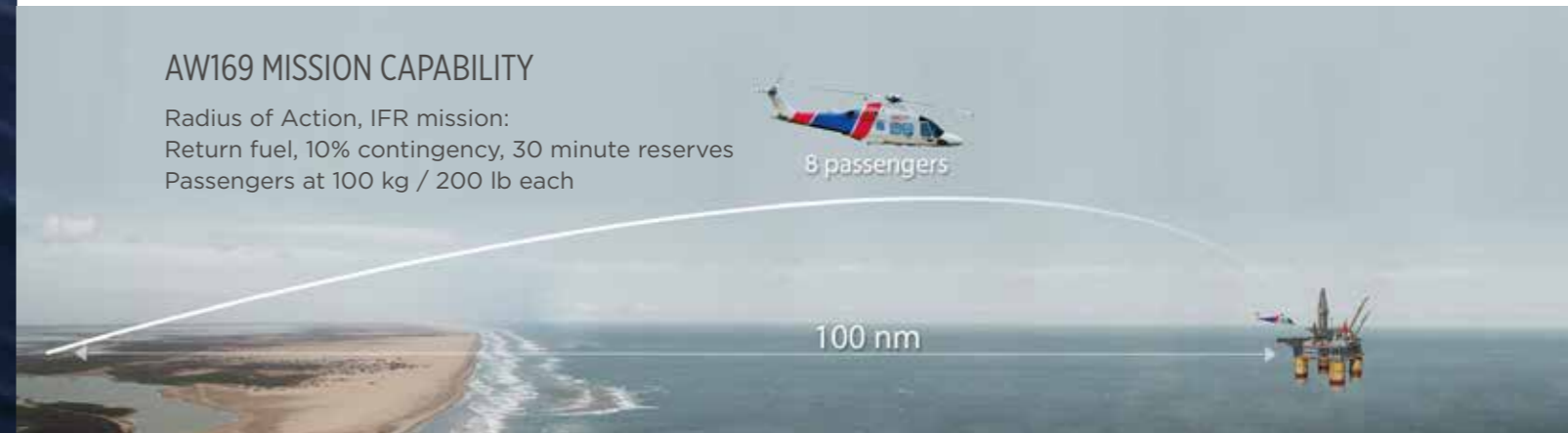
WORLDWIDE SUPPORT

Leonardo Helicopters customers maximize safety and operational effectiveness with advanced, tailored support and training solutions. Maintenance operations have been minimized by design, as have components subject to overhaul and replacement; reducing downtime for flight-intensive Offshore schedules. A worldwide network of service and support centres is already serving the Offshore industry. 'AWFamily' operators will benefit from optimized support, maintenance and training for pilots and technicians familiar with the AW139 platform, reducing time required for instructor-led and FFS-based training. Commonality in parts and tools yields cost savings for mixed fleet operators.



AW169 MISSION CAPABILITY

Radius of Action, IFR mission:
Return fuel, 10% contingency, 30 minute reserves
Passengers at 100 kg / 200 lb each



AW169 CHARACTERISTICS

Weight (MTOW)

Max Gross Weight	4,600 kg	10,141 lb
Optional Max Gross Weight (1)	4,800 kg	10,582 lb

Propulsion

Powerplant	2 x Pratt & Whitney PW210A series turboshafts with FADEC	
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Engine Ratings

AEO Take off power (5 min)	2 x 826 kW	2 x 1,108 shp
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Seating

Crew	1-2	
Passengers	8-10	
Stretchers	Quick removable stretcher kit available on request	
Baggage compartment	1.4 m ³	49 ft ³
	250 Kg	551 lb

External Dimensions

Overall length (2)	14.65 m	48 ft 1 in
Overall height (2)	4.50 m	14 ft 09 in
Rotor diameter	12.12 m	39 ft 9 in

Performance (ISA, S.L., MTOW)

VNE (SL)	306 km/h	165 kt
Hovering OGE	> 3,350 m	> 11,000 ft
Maximum range (3)	820 km	440 nm
Maximum endurance (3)	4 h 20 min	

(1) Available as a kit

(2) Rotors turning

(3) at 5,000 ft, no reserve, standard fuel system



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