

AgustaWestland AWFfamily



 **LEONARDO**
HELICOPTERS

AWFamily

DISTINCT CAPABILITIES, ONE DNA

WELCOME TO THE FAMILY ADVANTAGE

Leonardo Helicopters is the first rotorcraft manufacturer to introduce a “Family” of 3 advanced helicopters - the AW169, AW139 and AW189. From the light intermediate to the super medium weight category the AWFamily provides the advantage of a common design philosophy across a range of platforms.

The multi-role AWFamily of helicopters serves a wide range of missions minimises operating costs and enhances operational flexibility. Maintenance, training and technological commonalities reset the standard in effective helicopter fleet management.





AW169

COMMON EXTERNAL ARCHITECTURE

The distinctive shape of the AW169, AW139 and AW189 is derived from a common streamlined aerodynamic design with retractable wheeled landing gears to reduce drag and enhance cruise speed. High main and tail rotors increase safety on the ground and reduced external dimensions minimise the total footprint of the helicopters.

COMMON PERFORMANCE

The AW169, AW139 and AW189 are all designed to deliver excellent performance in the most demanding operating conditions and in the harshest of environments. The exceptional performance across the fleet means that flying procedures and operational approaches are similar, regardless of the type being flown.

Sharing full vertical Cat. A / Class 1 performance, they are designed to achieve the best power to weight ratios for superior power margins and optimum hover and controllability characteristics. AWFAMILY helicopters feature a high cruise speed and very competitive payload/range characteristics ensuring maximum productivity.

SAFETY BY DESIGN

AWFamily helicopters are designed in accordance with the latest FAA / EASA Part 29 certification standards.

All are compliant with the most stringent Oil & Gas Producers' safety requirements, incorporating features such as: full crashworthy airframe, crashworthy seats in rows aligned with no more than two people per emergency exit, engine burst containment, proven 30-min (for the AW189 unparalleled 50-min) "dry-run" capability for the main gearbox and One Engine Inoperative (OEI) capability in all flight phases, even in challenging hot and high conditions.

SUPPORTING THE FAMILY

The AWFAMILY of rotorcraft share a common approach to maintenance. Similar intervals in schedules allow operators to optimise resource planning and maximise availability. Common across the Family are up to 20% of parts, up to 30% common maintenance tools and ground support equipment. A common service philosophy in the design of support tools such as the Health and Usage Monitoring System (HUMS) and in the provision of Integrated Electronic Technical Publication (IETP) modules accelerates experience leading to more seamless working.

COMMON COCKPIT CONCEPT

The AW169, AW139 and AW189 provide excellent external visibility and share an ergonomically designed full digital glass cockpit, where information is presented using a common methodology. The common layout of relevant flight data affords pilots familiarity across the range, minimises workload, optimises concentration on task and allows a faster reaction in any condition.

COMMONALITIES IN TRAINING

The common design across the AWFAMILY leads to the optimisation of training for pilots with previous experience on one platform. Simulators are based on the same technology and training programmes benefit from common didactic tools. Reducing the training time required both for instructor-led and Full-Flight Simulator (FFS) based training by up to 40%, leads to a reduction in the overall investment needed and minimises the impact on operations. Advanced training aids improve the quality and efficacy of classroom and practical training across the AWFAMILY.



AW139



AW189



COMMON CABIN DESIGN

AWFamily helicopters benefit from the same cabin design philosophy. Large interior volumes and the constant height of the cabins enable an unobstructed and spacious environment, maximising working space and passenger comfort. The common internal architecture includes a flat ceiling and floor, allowing efficient use of the full area and facilitates rapid role reconfiguration, enhancing mission flexibility. All AWFamily helicopters share ease of access for crew to the cockpit and baggage compartment and for passengers to the cabin via large sliding doors.



AW169



AW139



AW189

AWFAMILY CHARACTERISTICS

	AW169	AW139	AW189
Passengers	1/2 pilots + 8/10 passengers	1/2 pilots + 12/15 passengers	1/2 pilots + up to 19 passengers
Weight Category	4.6 tonnes	6.4/7.0 tonnes	8.3 / 8.6 tonnes
Powerplant	2 x Pratt & Whitney Canada PW210 series turboshafts (1,000 shp class each)	2 x Pratt & Whitney Canada PT6C-67C series turboshafts (1,679 shp each)	2 x General Electric GE CT7-2E1 series turboshafts (2,000 shp class each), and one APU (60kW)
Main Cabin Volume	6.3 m ³ /222 ft ³	8 m ³ /283 ft ³	11.2 m ³ /395.5 ft ³
Cabin Dimensions	Width 2.05m/6 ft 9 in Height 1.32 m/4 ft 4 in Length 2.77 m/9 ft 1 in	Width 2.10 m/6 ft 11 in Height 1.42 m/4 ft 8 in Length 2.70 m/8 ft 10 in	Width 2.43 m/7 ft 12 in Height 1.42 m/4 ft 8 in Length 3.47 m/11 ft 5 in
Baggage Volume	1.4 m ³ /49.44 ft ³	3.4 m ³ /120 ft ³	2.4 m ³ /85 ft ³
Overall Length Rotors Turning (D-Value)	14.65 m/48 ft 1 in	16.66 m/54 ft 8 in	17.60 m/57 ft 9 in



3 Tonne

LIGHT INTERMEDIATE



5 Tonne

INTERMEDIATE



7 Tonne

SUPER MEDIUM

9 Tonne



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