LEONARDO HELICOPTERS

# AW169

## Security Services



LEONARDO

TECHNOLOGY FOR A SAFER FUTURE

# Versatility in Action

**TO SERVE AND PROTECT**
The AW169 is Leonardo's latest generation 5 tonne helicopter belonging to the AWFamily (alongside the AW139 and AW189). Its high levels of performance, long range and safety features make it ideal for airborne Para-public services, from troop insertion to patrolling and surveillance operations.



In addition, the AW169 remains the only helicopter in its class to offer multiple undercarriage options. The introduction of the skidded version allows to increase the MTOW up to 5,100 kg, expanding its already well-renowned multi-role features and unlocking additional payload, increasing the operational effectiveness. The helicopter can be equipped with a variety of role equipment to fully exploit its multi-role capability in the most demanding environments and operations, with the large cabin space and exceptional accessibility enhancing operator's flexibility.





## SAFETY AT THE CENTRE

The AW169 meets the most stringent regulatory and operating safety standards (EASA & FAA), such as structural crashworthiness integral to the design of the airframe, fuel system and seats, including also full certification for bird strike resistance. In addition, the AW169 design includes features aimed at increasing safety of all occupants, such as a unique-in-class fully tested and exploitable 33 min `run-dry' capability for the main gearbox.
Taking also advantage of considerable One Engine Inoperative (OEI), granting up to 2 minutes 30 seconds at highest engine rating and providing no height loss, the AW169 grants maximum safety even in critical environmental or mission conditions, such as hoisting or fast roping/rapelling operations.
The Auxiliary Power Unit (APU) Mode, by maintaining left engine on idle, ensures continued operation of electrical system, including avionics and mission systems, as well asenvironmental control system, maintaining rotors stopped and without any limitation in time.

## ADVANCED AVIONICS

The AW169 features an innovative full glass cockpit design with HMI based on touch screen display technology.
The state-of-the-art navigation suite is based on a dual Flight Management System (FMS) and an advanced digital dual-duplex 4-axis autopilot, incorporating GNSS/SBAS capabilities and latest generation advanced situational awareness technologies (HTAWS, TCAS II, ADS-B Out), which help in reducing the pilot's workload during all phases of the mission.
The avionic suite can be also completed including basic and advanced Search and Rescue (SAR) modes and patterns also granting full integration with the workstation installed in the cabin.








## CAPABILITY BEYOND THE NORM

- → Surveillance/Patrolling roles effectively conducted, including border guard operations
- → Easily adapted for disaster relief, humanitarian and community support
- → Suitable for operations in confined/congested and highly urbanized areas
- → Advanced role equipment to cater for all situations, including hoist, cargo hook, search lights, loudspeakers, EO/IR systems, Mission Management System with advanced augmented reality features, fast roping/rappelling kits, flexible Comms packages, video down/up link, internal weapon and modular ballistic protection for cockpit and cabin
- → High useful load for mission effectiveness
- → High speed to minimize "time to target"
- → High endurance to maximize "time on target".



## PERFORMANCE (ISA, MTOW)

### WHEELED LANDING GEAR (4,800 kg)

**MAX CRUISE SPEED** (5,000 FT, MCP)

142 KTAS (263 km/h)

**HIGE** (TOP)

14,918 FT (4,547 m)

**HOGE** (TOP)

11,387 FT (3,471 m)

**MAXIMUM RANGE** (@5,000 FT)

418 NM (774 km)

**MAXIMUM ENDURANCE** (@5,000 FT)

4 h 08 min

### SKID LANDING GEAR (5,100 kg)

**MAX CRUISE SPEED** (5,000 FT, MCP)

138 KTAS (256 km/h)

**HIGE** (TOP)

12,925 FT (3,940 m)

**HOGE** (TOP)

6,133 FT (1,869 m)

**MAXIMUM RANGE** (@5,000 FT)

386 NM (715 km)

**MAXIMUM ENDURANCE** (@5,000 FT)

3 h 52 min

# MORE ROOM TO WORK

The AW169's spacious cabin offers exceptional multi-role capability and is optimized for rapid reconfiguration, allowing it to adapt seamlessly to diverse law enforcement missions.
It can accommodate up to 10 officers, a specialized mission console that integrates data from a wide array or can be configured to hold two stretchers for MEDEVAC operations.
With its wide 1.6-meter doors, the AW169 enables efficient fast-roping, rappelling, and hoisting operations, providing tactical versatility and enhanced response capabilities in high-stakes scenarios.






## CABIN VOLUME

**6.30 m³** (222.5 FT³)

## BAGGAGE VOLUME

**1.40 m³** (49.44 FT³)

## CAPACITY

**Crew 1 to 2** **Passengers seating up to 10 or 8 law enforcement officers**



# CHARACTERISTICS



| AW169 - WHEELED LANDING GEAR | | |
|---|---|---|
| **WEIGHTS (MGW)** | → Max Gross Weight(1)<br>→ Optional Gross Weight(1) | 4,600 kg (10,141 lb)<br>4,800 kg (10,582 lb) |
| **PROPULSION** | Powerplant | 2 x Pratt & Whitney Canada PW210A1 series turboshafts, with 1,153 SHP each, with dual channel digital FADEC system |
| **DIMENSIONS** | → Overall length(2)<br>→ Overall height(2) | 14,65 m (48 FT 01 in)<br>4,5 m (14 FT 09 in) |

| AW169 - SKID LANDING GEAR | | |
|---|---|---|
| **WEIGHTS (MGW)** | → Max Gross Weight(1)<br>→ Optional Gross Weight(1) | 4,800 kg (10,582 lb)<br>5,100 kg (11,2436 lb) |
| **PROPULSION** | Powerplant | 2 x Pratt & Whitney Canada PW210A1 series turboshafts, with 1,153 SHP each, with dual channel digital FADEC system |
| **DIMENSIONS** | → Overall length(2)<br>→ Overall height(2) | 14,65 m (48 FT 01 in)<br>4,3 m (14 FT 01 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

Successful operations rely on highly skilled crews, strong coordination, and the ability to perform under pressure.

Our training portfolio combines theoretical elements, advanced simulation, and hands-on operational training to develop the competencies required for safe and effective mission execution.

Combining advanced simulation, mission-based scenarios, and practical training activities, including NVG operations, tactical procedures, and multi-crew coordination, our programs develop the skills required to maximize mission effectiveness.
By integrating technical proficiency with Crew Resource Management (CRM) and Human Factors principles, we help operators enhance safety, operational readiness, and performance whenever the mission demands it.





## 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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