



LEONARDO HELICOPTERS

Government and Military Product Range

SERVING THE DEFENCE MARKET

Leonardo Helicopters provides a wide range of advanced products and services that meet the demanding capabilities of government and military operators. The Company's defence product line covers all the main weight categories and includes new generation technologies such as VTOL UAS. All the helicopters are tailored to the customers' environmental and operational requirements.

These military helicopters have been designed to provide excellent performance, lower life-cycle costs and high levels of mission ability and flexibility. In addition to the

air vehicle performance, large multi-role cabins enable efficient modular configuration and role conversion for different tasks in both land and maritime environments.

Each rotorcraft features state-of-the-art cockpit, avionics and mission systems enabling day/night operations in extreme environments with high levels of safety and survivability.

Fully integrated advanced mission systems, equipment and weapons make each helicopter a complete operational system, integrated and networked alongside other military hardware.

PRODUCT AND CAPABILITY OVERVIEW



AWHERO

The only Military Certified Rotary UAS in 200 kg class, it provides the highest levels of mission availability and operational flexibility. Featuring modular and multi-payload capability, it is the perfect solution to enhance operational effect in complex roles and tasks. **Roles:** Persistent Land and Maritime Wide Area Surveillance, ASW Sonobuoy Data Relay, Comms Relay, Border Protection, Combat Support, Force Protection, Cargo Re-Supply, Homeland Security.



AW119M

The largest and most powerful helicopter in the light single engine class with high multi-mission versatility and superior power margins for hot & high operations.

Roles: ISTAR, Threat Suppression, Troop Transport, Utility Operations.



AW119T

The fast and powerful light single-engine training helicopter with unmatched versatility, the new benchmark for training. Superior power safety margins, excellent flight handling qualities and controllability combined with a robust, durable design and unique in its class IFR Certification to create a full-spectrum training platform. **Role:** Training.



AW109M

The best light multi-role helicopter designed to provide high performance and extreme mission versatility for land and naval operations in the harshest environments. **Roles:** ISTAR, Armed Reconnaissance, Armed Escort, Troop Transport, Command and Control, Maritime Security Operations, Utility Transport, SAR and MEDEVAC.



AW169M

The only new generation light intermediate multi-role, twin-engine helicopter which meets the most stringent certification requirements. This agile and capable platform can be configured with a large range of role equipment already available in portfolio to cover multiple missions. **Roles:** Troop Transport, Logistics Support, Special Forces Operations, ISTAR, Command & Control, Air Close Support, SAR, MEDEVAC/CASEVAC and Personnel Recovery.



AW159

The multi-mission network enabled maritime and battlefield military helicopter capable of autonomous detection, identification and attack of Land and Naval targets.

Roles: ISTAR, Maritime Security Ops, Armed Aerial Scout, Special Forces or Troop Insertion, Anti-Surface Warfare (ASuW), Anti-Submarine Warfare (ASW), Logistics Re-Supply/VERTREP, SAR and MEDEVAC.



AW139M

Building on the market leading success of the AW139, it is the benchmark in its class for safety design features and performance capabilities, provides multi-role land and maritime capability. **Roles:** Battlefield Support, Tactical and Troop Transport, Threat Suppression, Command and Control, SAR/CSAR, Maritime Patrol and Homeland Security.



AW249

The new combat helicopter. Technologically advanced, with outstanding performance, high survivability, network enabled, including Crewed, Uncrewed Teaming and low operating cost, the AW249 will be able to maintain operational advantage in evolving scenarios for the next 30 years. **Roles:** ISTAR, Armed Reconnaissance, Armed Escort, Command and Control, Homeland Security.



AW149

The latest generation medium multi-role helicopter developed to ensure excellent performance, lower life-cycle costs and day and night all weather capability.

Roles: Battlefield Support, Tactical and Troop Transport, Logistics Support, Threat Suppression, Close Air Support, Command and Control, SAR/CSAR, MEDEVAC, Maritime Patrol and Homeland Security.



NH90

The medium size helicopter program managed by the joint venture NHIndustries. It encompasses Tactical Transport (TTH) and Naval (NFH) versions.

Roles: Battlefield Troop and Cargo Transport, Special Operations, SAR, MEDEVAC, Counter-Terrorism, Command and Control, VVIP transport, Disaster Relief, Anti-Submarine Warfare (ASW), Anti Surface Warfare (ASuW), Coast Guard, Maritime Security Operations and VERTREP.



AW101

The most advanced, versatile and capable multi-role helicopter available today, has proven itself in a wide range of operational theatres, on land and at sea, worldwide. **Roles:** ISTAR, Maritime Security Operations, Anti-Surface Warfare (ASuW), Anti-Submarine Warfare (ASW), Tactical Troop Transport, SAR/CSAR, Airborne Surveillance and Control (ASaC), Airborne Mine Countermeasures (AMCM), Logistics Support, CASEVAC/MEDEVAC and VVIP Transport.



AW609 Tiltrotor

The next generation of point-to-point transportation for para-public and government missions. This multi-role aircraft can be configured for numerous applications.

Roles: Homeland Security, VIP, Utility, Naval, Special Operations, SAR and Personal Transport.

LEONARDO HELICOPTERS CUSTOMER SUPPORT & TRAINING

Leonardo is a leader in delivering Integrated Operational Support (IOS) solutions for government and military Customers, providing the highest levels of safety, availability, reliability and maintainability.

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

We design, develop and deliver 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.

Our helicopters have completed extensive reliability and maintainability testing, development and intensive flight trials before entering service. They are deployed on operations in a wide range of roles across the world, ranging from extreme cold Arctic conditions to harsh hot and high desert environments. This extensive operational experience and feedback is utilised to continually review and improve our helicopters' reliability and maintainability to maximise fleet availability.

| | MTOW (Max Take Off Weight) | Powerplant | Capacity | Max Cruise Speed | Max Range | Max Endurance |
|----------------------------|---|--|--|--|---|---|
| AWHERO | 200 kg class (440 lb) | Heavy Fuel | Nose Bay Up to 20kg (44lb); Underbelly Bay Up to 40kg (88lb) | 167 km/h (90 kt) | Long range coverage: 100km (54nm) | 6 h |
| AW119M/ AW119T | 2,850 kg (6,283 lb) | 1 x Pratt & Whitney Canada PT6B-37A | 1-2 pilots up to 6 troops | (@5,000 FT, ISA, MGW, MCP) 241 km/h (130 kt) | (@5,000 FT, ISA, MGW)* 945 km (510 nm) *with auxiliary fuel tanks - No reserve | (@5,000 FT, ISA, MGW)* 5 hr 16 min *with auxiliary fuel tanks - No reserve |
| AW109M | 3,175 kg (7,000 lb) | 2 x Pratt & PW207C Whitney Canada | 1-2 pilots up to 6 troops | (@5,000 FT, ISA, MGW, MCP) 274 km/h (148 kt) | (@5,000 FT, ISA, MGW)* 828 km (447 nm) *with auxiliary fuel tanks - No reserve | (@5,000 FT, ISA, MGW)* 4 hr 19 min *with auxiliary fuel tanks - No reserve |
| AW169M | 4,600-4,800 kg (10,141-10,582 lb) | 2 x Pratt & Whitney Canada PW210A1 Turboshafts with FADEC | 1-2 pilots up to 10 troops | (@5,000 FT, ISA, MGW, MCP) 267 km/h (144 kt) | (@5,000 FT, ISA, MGW) 785 km (424 nm) | (@5,000 FT, ISA, MGW) 4 hr 14 min |
| AW159 | 6,050 kg (13,338 lb) | 2 x LHTEC CTS800-4N Turboshafts with FADEC | 1 Pilot, 1 Copilot/ TACCO 6 troops | (ISA, MGW, SL, MCP) 264 Kph (143 kt) | (@5,000 FT, ISA, MGW) 518 km (280 nm) | (@5,000 FT, ISA, MGW) 3 hr |
| AW139M | 6,400-6,800-7,000 kg (14,110-14,991-15,432 lb) | 2 x Pratt & Whitney Canada PT6C-67C Turboshaft Engines | 1 or 2 pilots 15 troops | (@5,000 FT, ISA, MGW, MCP) 306 km/h (165 kt) | (@5,000 FT, ISA, MGW)* 1,187 km (641 nm) *with auxiliary fuel tank - No reserve | (@5,000 FT, ISA, MGW)* 5 hr 38 min *with auxiliary fuel tank - No reserve |
| AW249 | 8,300 kg (18,298 lb) | 2 x GE-AvioAero CT7-8E6 | 1 pilot, 1 gunner | Average Mission Weight, ISA, SL 287 km/h (155 kt) | Average Mission Weight, ISA, SL 796 Km/ 430 NM | (ISA, SL) primary fuel tank, Best Endurance Speed, operative configuration 4 hr |
| AW149 | 8,300 - 8,600 kg (18,298 - 18,960 lb) | 2 x General Electric CT7-2E1 Turboshafts with FADEC (2,000 shp class each) and 1 x Safran e-APU (60 kW) or 2 x Safran Aneto-1K Turboshafts with FADEC (2,500 shp class each) and 1 x Safran e-APU (60 kW) | 1 or 2 pilots 19 troops | (@5,000 FT, ISA, MGW, MCP) - General Electric CT7-2E1 and Safran Aneto-1K 294 km/h (159 kt) | (@5,000 FT, ISA, MGW) with "Under Floor" & "Transversal" aux fuel tanks no reserve 1,009 km (545 nm)* 913 km (493 nm)** *General Electric CT7- 2E1 **Safran Aneto-1K | (@ 5,000 FT, ISA, MGW) - with "Under Floor" & "Transversal" aux fuel tanks - no reserve 5 hr 05 min* 4 hr 28 min** *General Electric CT7- 2E1 **Safran Aneto-1K |
| NH90 | TTH/NFH 10,600 / 11,000 kg (23,369 / 24,250 lb) | 2 x FADEC equipped | 1 or 3 pilots troops Up to 20 | @10t 300 km/h (162 kt) | (standard fuel tanks) 982 Km (530 nm) | (standard fuel tanks) 5h |
| AW101 | 15,600 kg (34,390 lb) | GE CT7-8E Turboshafts with FADEC | 2 pilots, 1 air crewman 25 + troops | (ISA, MGW, SL, MCP)* 277 km/h (150 kt) * SL-MCP = Sea Level at Max Continuous Power | (@5,000 FT, ISA, MGW) 2 eng cruise no reserves, standard fuel tanks, 6,000 ft cruise 1,500 km; (810 nm) | (@5,000 FT, ISA, MGW) (Twin Engine Cruise) 7 h 40 min* *No reserves, standard fuel tanks, 6,000 ft cruise |
| AW609 Tiltrotor | 8 tonne class (18,000 lb) | 2 x Pratt & Whitney Canada PT6C-67A | 2 pilots 9 passengers | 500 km/h (270 kt) | With aux fuel 1,389/1,852 km (700/1,000 nm) | |

MK-MilRange-0723



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