

AgustaWestland AW009



 **PZL-ŚWIDNIK**
a LEONARDO HELICOPTERS company



AW009

NEW BRAINS, NEW BRAWN.



COMPACT AND CAPABLE

The refined and attractive AgustaWestland AW009 is a cost-effective, multi-mission capable, light single-engine helicopter – an evolution of the rugged SW-4.

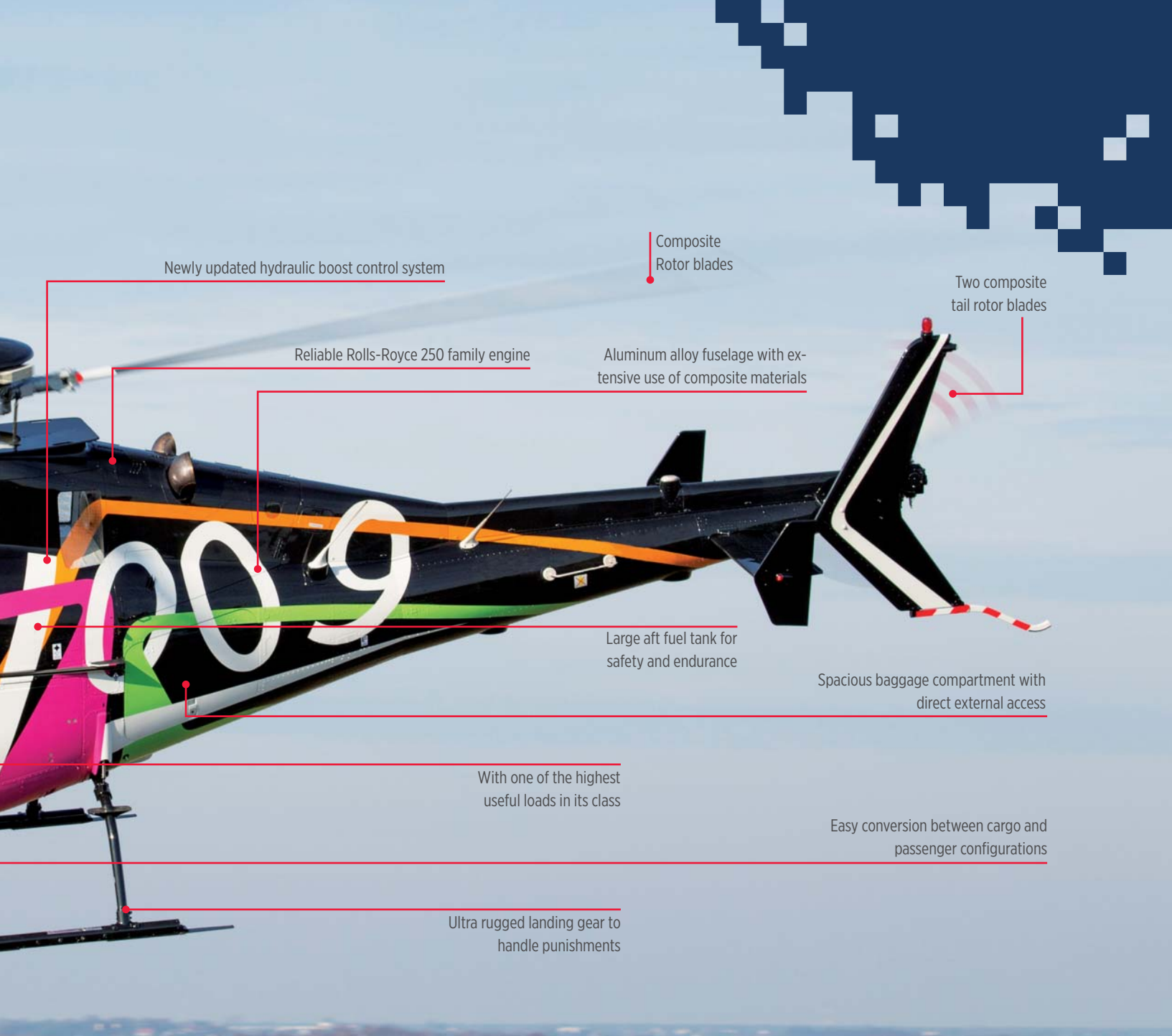
The mission-proven Rolls-Royce M250-C20R/2 (SP) engine ensures reliable, high performance; an optional M250-C30P engine upgrade will provide enhanced power handling for the most demanding mission. An advanced ‘Genesys’ avionics display is now standard in every AW009 to ensure excellent situational awareness; pilots experience an intuitive, easy to fly platform with excellent range and endurance – essential for demanding training, law enforcement, passenger transport and utility operations.

OUTSTANDING STANDARD FEATURES



ADDITIONAL AVAILABLE EQUIPMENT

- Engine fire extinguishing system
- Cabin heating system
- Windshield wipers
- Main rotor brake
- Skids springs
- Dual pilot instrument panel configuration and additional Com / Nav equipment
- Pilot training for day and night flights under simulated IFR conditions
- NVG training for day and night flights
- Cabin cargo transport equipment (up to 323 kg / 710 lb in the rear cabin, up to 90 kg / 198.5 lb in the front side cabin and further 150 kg / 331 lb in the baggage compartment)
- Cargo sling (650 kg / 1,433 lb)
- Bambi Bucket (455 liters/ 120 USgal).



Newly updated hydraulic boost control system

Composite Rotor blades

Two composite tail rotor blades

Reliable Rolls-Royce 250 family engine

Aluminum alloy fuselage with extensive use of composite materials

Large aft fuel tank for safety and endurance

Spacious baggage compartment with direct external access

With one of the highest useful loads in its class

Easy conversion between cargo and passenger configurations

Ultra rugged landing gear to handle punishments



NEW AVIONICS FURTHER ENHANCES SAFETY

State-of-the-art Genesys Aerosystems cockpit, combined with exceptional external visibility, guarantees a superlative situational awareness. The package includes:

- Ergonomic and low workload cockpit layout
- 6" x 8" EFIS display
- Integrated 3D Synthetic Vision with Highway-In-The-Sky navigation
- Integrated Helicopter Terrain Awareness Warning System (HTAWS) with worldwide terrain and obstacle database
- VHF / AM, VOR, GPS, ESIS.



PRIMARY AND ADVANCED TRAINING

The AW009 flying qualities and high inherent safety by design are essential attributes extremely suitable for training operations.

Leading features

- Available with dual controls
- Flight controls powered by hydraulic amplifier
- Crashworthy adjustable seats
- Good visibility through all windows
- Low vibration levels
- Dual-pilot avionics and navigation instrument panel configuration, additional communications equipment and double master cautions and warning lamps
- Capability for day and night flights under simulated IFR conditions
- Capability for NVG training flights.

PASSENGER TRANSPORT

The AW009 flying qualities and high inherent safety make it also an optimum helicopter to transport up to 5 people: 1 pilot and up to 4 passengers.

Leading features

- The spacious cabin provides passengers with excellent comfort, ample legroom and individual adjustable crashworthy seats
- Superior external visibility for pilots and passengers
- Two rear sliding doors and two forward hinged doors allow for easy access
- Spacious baggage compartment with direct external access of 0.85 m³ / 30 ft³ volume and internal length of 1.47 m / 4.81 ft
- High Max Range and Endurance in light single engine helicopters class (up to MTOW=1,800 kg / 3,968 lb).

AW009 CHARACTERISTICS WITH ROLLS-ROYCE M250-C20R/2 (SP) ENGINE

Weights (MTOW)

Max Gross Weight	1,800 kg	3,968 lb
Basic Empty Weight	998 kg	2,200 lb
Sling Load Capacity	650 kg	1,433 lb

Engine Ratings

Take off power (5 min)	336 kW	450 shp
Maximum Continuous Power	283 kW	380 shp

Transmission Rating

Take off power (5 min)	326 kW	437 shp
Maximum Continuous Power	264 kW	354 shp

Fuel Capacity

Standard	471 l	125 USgal
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Crew

Pilots/Passengers	1 pilot + 4 passengers / 2 pilots + 3 passengers	
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External Dimensions

Overall length (rotors turning)	10.58 m	34 ft 8 in
Overall height (rotors turning)	3.14 m	10 ft 3 in
Skids track	2.20 m	7 ft 2 in

Performance (ISA, MGW)

VNE (SL)	254 km/h	137 kt
Max cruise speed (SL-MCP)	206 km/h	111 kt
Hovering IGE	1,290 m	4,232 ft
Hovering OGE	820 m	2,690 ft
Service Ceiling (MCP)	3,900 m	12,795 ft
Max Range*	752 km	406 nm
Max Endurance*	5 h 03 min	

* No reserve, SL, ISA

LAW ENFORCEMENT

Benefitting from modern technology, low operating cost, excellent flying characteristics and capable of operations in day and night VFR conditions; the AW009 is ideally-suited to police/security multi-mission requirements.

Leading features

- Spacious cockpit allowing ample space for the pilot and his/her Tactical Flight Officer
- Dual controls with hydraulic assistance, crashworthy seats, dual pilot instrument panel
- Communication and navigation units can be customized in accordance with the specific requirements of the customer
- Comprehensive range of mission specific equipment
- Comfortable working space for mission operator
- Spacious cabin to accommodate 1 stretcher and 1 attendant, plus equipment
- Excellent external visibility
- Competitive acquisition and operating costs.

UTILITY

The cabin has been designed to provide high levels of operational flexibility. It can be quickly and easily reconfigured to a cargo solution layout capable of carrying up to 323 kg / 710 lb in the cabin, additional 90 kg / 198.5 lb in the place of co-pilot / passenger seat and further 150 kg / 331 lb in the baggage compartment.

Leading features

- Spacious cabin, easy to be reconfigured
- Cargo sling with maximum capacity 650 kg / 1,433 lb
- Bambi Bucket (455 liters / 120 USgal) for firefighting mission
- Excellent external visibility
- Competitive acquisition and operating costs.



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