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**GrandNew**  
EMS

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**AW109**  
GRANDNEW

## ADVANCED CAPABILITY FOR EMERGENCY MEDICAL SERVICES

The GrandNew is a modern top-of-the-range light twin rotorcraft offering outstanding performance, speed, payload, excellent operational flexibility as well as high safety through advanced navigation and situational awareness technology.

Designed to operate in the challenging conditions associated with EMS, Medevac and Search and Rescue missions over land and water, the GrandNew fully complies with safety, performance and effectiveness requirements to successfully carry out these missions anytime and anywhere.





## SPACE AND ACCESSIBILITY

Unmatched access through wide sliding doors to a large 3.9 m<sup>3</sup> / 137,7 ft<sup>3</sup> cabin facilitates operational flexibility in critical tasks such as hoist operations. The unobstructed space allows for full body patient access in a wide range of layouts which may include single or dual stretcher. Careful configuration of equipment ensures the tools for the task are placed within easy reach.

GrandNew benefits from:

- Easy loading of stretchers through 1.40 m / 4'7" wide sliding doors
- Flexible configurations including 2 stretchers and 2 medics or 1 stretcher with up to 4 medics
- Sliding and swivelling medical attendant seat
- Cabin rails for efficient placement of equipment
- High capacity separated baggage compartment
- Ample internal storage space
- Simplified hoist operations for rescues.

## SAFETY

Safe in design, the GrandNew incorporates system redundancy, crash resistant fuel system and seating in a superior impact resistant cocoon type airframe. Powerful PW207C turboshaft engines with FADEC enable safe flight even in single engine conditions from the very smallest of landing sites or rooftops of city centre hospitals.

- Cat. A Class 1 performance enabling safe flight in O.E.I conditions
- No payload reduction up to ISA+20 (35 °C @ SL) in Category A Vertical Take-off and Landing
- Crash resistant airframe, fuel systems and seats
- State of the art avionics suite for enhanced situational awareness.

## ENVIRONMENTALLY FRIENDLY

- New main and tail rotor system design minimises the external noise signature reducing any disturbance in densely populated areas
- Take-off, fly-over and approach noise certification data well below the most stringent international requirements
- Low specific fuel consumption and emission of pollutants.

## ADVANCED NAVIGATION

GrandNew's state-of-the-art navigation suite, based on a dual Flight Management System (FMS) and an advanced digital dual-duplex 4-axis autopilot, incorporating GNSS / SBAS capabilities, provides lateral and vertical guidance for in-flight procedures including approach operations to LPV minima. A new benchmark is thereby set in operating capability.

## SITUATIONAL AWARENESS

An ergonomic glass-cockpit integrates FMS, Synthetic Vision System (SVS), and HTAWS functions to reduce crew workload enhancing safety in single and dual pilot operations. A dedicated 8.4" central cockpit display is available for inputs such as the Digital Map System, Enhanced Vision System or FLIR. Superior situational awareness in support of safe operations is enhanced through excellent external visibility, ergonomic cockpit layout for single pilot IFR operations, new EFIS featuring Synthetic Vision, Highway In The Sky and Helicopter Terrain Awareness Warning System (included in the basic configuration), Enhanced Vision System, cargo hook cameras.



## FLEXIBILITY

A spacious cabin and modular interior ensure GrandNew the versatility to engage in various roles. In EMS operations GrandNew is proven to meet a broad range of complex missions from primary emergency rescues to secondary patient transfer tasks. A wide range of specialist equipment supports this capability including:

- Stretchers up to 2 m / 6' 7" in length
- Intubation saddle
- Incubator
- Oxygen distribution system (up to 2,400 l capacity)
- Drawers for medical materials
- Cabin rails for optimum positioning of seats and medical equipment
- High intensity lighting system
- Air-conditioning
- Passenger conversion kit

Search and Rescue equipment includes:

- 272 kg / 600 lbs rescue hoist with 90 m / 295' 3" cable length
- Dual cargo hook (1,150 kg / 2,535 lbs - 500 kg / 1,102 lbs)
- Search light
- FLIR
- External loudspeakers
- Rapelling hooks
- Emergency floats

## WORLDWIDE SUPPORT

The AgustaWestland GrandNew benefits from an extensive network of customer representatives, technicians and engineers, complemented by repair, overhaul and spares facilities throughout the world. Regional Training Academies offer world-class training from ab-initio and type certification through to advanced mission training. Using a combination of instructor-led learning with fully equipped modern classrooms and the helicopter, advanced multimedia technology, physical and virtual training aids and Full Flight Simulators, AgustaWestland leverages more than 50 years of experience in the delivery of high quality training for aircrew and technicians.

## LOW OPERATING COST

With GrandNew, operators achieve the attractive combination of a platform available at light twin acquisition and operating costs together with the operating capability associated with larger Part 29 helicopters. GrandNew retains a high residual value and is cost effective to maintain due to:

- Competitive man-hour per flight-hour maintenance costs
- High reliability, TBO and retirement life on components
- Modern powerplant with reduced maintenance cycles



Photo Rega

## GRANDNEW CHARACTERISTICS

### Dimensions

Overall length	12.96 m	42 ft 06 in
Overall height	3.40 m	11 ft 02 in
Rotor diameter	10.83 m	35 ft 06 in

### Propulsion

Powerplant (2) Pratt & Whitney Canada PW207C

### Engine Rating

AEO Take off power 2 x 548 kW 2 x 735 shp

### Weight (MTOW)

Internal load	3,175 kg	7,000 lb
External Load	3,200 kg	7,055 lb

### Capacity

Crew	1-2
Stretchers	2 stretchers and up to 2 medical attendants 1 stretcher and up to 4 medical attendants

### Fuel

3-cell fuel system (460 kg)	575 l	152 USgal
4-cell fuel system (535 kg)	669 l	177 USgal

### Performance (ISA, 3,175 kg / 7,000 lb)

Cruise Speed (S.L.)	289 kph	156 kt
Maximum range <sup>(1)</sup>	706 m	381 nm
Maximum endurance <sup>(1)</sup>	3 h 40 min	
Rate of Climb (S.L.)	9.2 m/s	1,820 ft/min
Service Ceiling	4,880 m	16,000 ft
Hover IGE	4,750 m	15,600 ft
VTOL cat. A	945 m	3,100 ft

<sup>(1)</sup> with 177 USgal, no reserve, @ 5,000 ft