



# **Green AW109 Trekker**

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2018 with less than 400  
hours



# AW109 Trekker

The AW109 Trekker is the latest Leonardo multi-role light twin-engine helicopter.

With best-in-class lifting capability, superior range and outstanding performance, the multi-role AW109 Trekker enables operators to tackle even the most demanding missions. The twin-engine AW109 Trekker is a flexible, rugged and reliable aircraft that offers a high payload and a spacious cabin that can be reconfigured quickly, making it ideally suited to a wide range of applications.

With an impressive track record of over 1,000 civil helicopters operating in over 80 countries for more than 550 customers, the AW109 Trekker enjoys extensive support from both the OEM and a global network of MROs.

It comes as no surprise that over the last decade, the AW109 has consistently maintained its position at the forefront in terms of new deliveries and pre-owned sales, underscoring its enduring liquidity and continued market appeal.

# Highlights

- Only 140 hours flown since new
- Over 95% of potential on the airframe and on the engines
- Easily reconfigurable to suit your specific mission requirements
- Max cruise speed (@5,000 FT, ISA, MGW, MCP) at 274 KM/H 148 KTAS
- Max range (@5,000 FT, ISA, MGW) at 828 KM 447 NM
- Single or dual pilot, Visual Flight Rules (VFR) or Instrument Flight Rules (IFR)



YOM

2018



CONFIGURATION

GREEN



TOTAL TIME

Under 400  
hrs



ENGINE X2

PW207C

# Remaining Potential<sub>(Estimated)</sub>

	Helicopter Part	Time Between Overhaul	Remaining Time	Percentage Remaining
<b>Airframe</b>	Main Rotor Blade x4	6,000 hrs	5,860 hrs	<b>98%</b>
	Tail Rotor Blade x2	11,400 hrs	11,260 hrs	<b>99%</b>
	MGB	4,800 hrs	4,660 hrs	<b>97%</b>
	TGB	3,000 hrs	2,860 hrs	<b>95%</b>
	Main Servo	1,800 hrs	1,660 hrs	<b>92%</b>
	Tail Servo	1,800 hrs	1,660 hrs	<b>92%</b>
	Starter Generator	1,000 hrs	860 hrs	<b>86%</b>
<b>Engine</b>	Engine 1	4,000 hrs	3,860 hrs	<b>96%</b>
	Engine 2	4,000 hrs	3,860 hrs	<b>96%</b>

# Airframe

Aluminum alloy and bonded panel fuselage

Semi-monocoque aluminum alloy tail boom

New reinforced skid type landing gear

Two hinged jettisonable crew doors (LH and RH)

Two sliding passenger doors (LH and RH), 1.40 m opening, with jettisonable windows

Acrylic transparent windshield and side windows

Acrylic transparent overhead windows

Quick removable tail rotor drive shaft cover

Separate baggage compartment with hinged door

Removable fairing and cowlings, for complete accessibility to the controls and drive components

Quick opening hinged inspection doors, to allow visual check of engine oil levels and maintenance inspection points

Grounding points

Jacking and hoisting points

# Rotors & Controls

Titanium main rotor hub, corrosion protected, fully articulated with four composite grips, four elastomeric bearings, four individually interchangeable composite material blades, swept tips, and dampers

Steel tail rotor hub, corrosion protected, semi-rigid delta hinged type, with two composite blades, individually interchangeable

Cyclic and collective controls powered by two hydraulic systems

Hydraulically powered anti-torque system

Adjustable friction devices on cyclic and collective system

Force trim and artificial feel system

Adjustable directional control pedals

Flapping and droop restraint mechanism

# Power Plant and Fuel System

Two Pratt & Whitney Canada PW207C turbo-shaft engines  
Pratt & Whitney Canada PW207C

Two independent electronic control systems (FADEC) with normal emergency and training operation modes and auto-start

Engine mounted fuel pump and filter assembly (2)

Engine mounted oil pump and filter assembly (2)

Engine mounted fuel control and governor (2)

Lubrication and cooling system

Engine oil chip detectors (2)

Engine control panel

Two independent fuel systems with cross-feeding valve and control panel

3-cell crash-resistant fuel system (575 l – 152 Usgal)

Submerged fuel boost pumps (2)

Airframe mounted easy access fuel filter

RH refueling point RH

Ground fuel drains

# Transmission Drive System % Hydraulic System

960 shp for takeoff and 900 shp continuous operation main transmission

Three-stage transmission

Free wheeling units (2)

Dual independent, redundant hydraulic systems

Transmission mounted hydraulic pumps (2) with separate reservoir

Internal dry sump transmission lubrication with pressure and scavenge pump and oil filter

Transmission oil chip detectors (2)

Single stage, bevel gear T/R 90° gear box including oil level sight glass and chip detector

Transmission cooling and lubrication system

Transmission shafts

# Electrical System

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24 V DC 33 Ah nickel-cadmium battery with temperature probe

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200 A self-cooled starter generators (2) 200 A

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Voltage regulators (2)

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Battery relay

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Interconnecting bus relays (2)

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External power relay

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Distribution buses (1 battery, 2 essential, 2 emergency, 2 main, 2 auxiliary)

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External power receptacle

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Position lights (NVG friendly – green, red white)

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Taxing lights (1 RH) and landing lights (1 LH)

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Anti collision lights (2) (NVG friendly)

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Cockpit utility lights (2)

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Instrument lights with dimming switch

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Radio master switch with ground function

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# Single Pilot VFR Avionic System

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Two 6" x 8" display units providing a Primary Flight Display (PFD) and a Multifunction Display (MFD) and integrating:

- Synthetic Vision System (SVS)
  - Highway In The Sky (HITS)
  - Helicopter Terrain Awareness and Warning System (HTAWS)
  - Flight Management System (FMS)
  - Radio tuning controls
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Dual Data Acquisition Unit (DAU)

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Dual Air Data Computer and Attitude Heading Reference System (ADAHRS)

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VHF/AM

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VOR/ILS

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GPS

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Transponder (Mode-S)

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Pilot Intercommunication System (ICS)

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Magnetic Direction indicator

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# System Data (on Displays)

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Dual Inter turbine gas  
temperature indicator (ITT°C)

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Dual Engine torque indicator  
(TQ%)

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Dual Compressor speed  
indicator (N1%)

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Dual Turbine speed indicator  
(N2%)

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Rotor speed indicator (NR%)

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Dual Transmission oil pressure  
(PSI) and temperature (°C)  
indicator. Dual Engine oil  
pressure (PSI) and temperature  
(°C) indicator

Dual Fuel pressure (PSI) and  
fuel quantity (kg) indicator

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Dual hydraulic pressure system  
indicators (PSI)

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Outside air temperature  
indicator (°C)

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Dual DC voltmeter (VDC)

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Dual DC voltmeter (Amp)

# Warning Advisory and Maintenance System

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Master warning lights

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Master caution lights

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Warning, caution and advisory  
messages

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Aural alerts

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Engines fire detection system



# Premium Equipment

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Crash-resistant co-pilot seat,  
fore and aft adjustable, with lap  
belts and headrest

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Shoulder harness with inertial  
reels (co-pilot)

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AC power supply system (2  
inverters)

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AFCS 3-axis duplex SP-711

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Radar altimeter

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Doors key lock

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Airframe hourmeter

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Baggage compartment lights

Crew open door actuators

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Engine compartment fire  
extinguishers (Qty 2)

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Fuel cap with key-lock

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Pulsed chip detectors (in lieu of  
quick disconnecting chip  
detectors)

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450 W Retractable/rotating  
landing light (nose mounted)

# Miscellaneous / Ground Equipment

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Air intake/exhaust covers

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Ground tools kit (including tow  
bar, ground wheels, lifting tool)

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Pilot tubes covers

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Rotorcraft Flight Manual (RFM)  
and technical publications

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Tie-down fittings (main rotor  
retention straps)

# Interior Arrangement

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Crash-resistant pilot seat, fore and aft adjustable, with lap belts and headrest

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Shoulder harness with inertial reels (pilot)

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Aluminum alloy honeycomb reinforced floor with anti-skid Finishing

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Ventilation ram air inlets

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Anti reflection instrument panel

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Primer finished cabin walls

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Portable fire extinguisher

# Exterior Finishing and Painting

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Finishing in accordance with manufacturer specification (NTA 893 A)

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Primer exterior painting

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Standard color scheme from Company paint selection, solid color

# Configuration – Green (Rigid liners)

*The multi-role cabin of the AW109 Trekker enables operators to tackle even the most demanding missions.*

*The flexible, large and elegantly designed cabin can comfortably accommodate up to six passengers.*

*It can be reconfigured quickly to accommodate one stretcher and three/four medics, or two stretchers and two medics.*

*High power margins and full crashworthiness maximize safety in all flight conditions.*

## Cabin and Cockpit Configuration

Rigid liners

Intercommunication system for passengers

Cabin loudspeakers (Qty 2)

Reading lights, emergency lights

Upper and lower air vents

Headset H10-13H David Clark (Qty 6)

Standard cockpit interior

Air conditioning ECU

Windshield Wiper

Rotor Brake

ELT

External rescue hoist (272 kg/600 lb) provision

Electrical Load Analysis document

# Configuration – Green (Rigid liners)

## Avionics Equipment

Dual Pilot IFR package (in addition to Single Pilot VFR STD configuration)

Dual controls

Co-Pilot large color Primary Flight Display (PFD) embedding:

- Synthetic Vision System (SVS)
- Highway In The Sky (HITS)
- Helicopter Terrain Awareness and Warning System (HTAWS)
- Flight Management System (FMS)
- Radio tuning controls

2<sup>nd</sup> VHF/AM

2<sup>nd</sup> VOR/ILS

2<sup>nd</sup> GPS

ADF

DME

Marker beacon

Electric Standby Indicator

Co-Pilot Intercommunication System (ICS)

Dual Master warning lights

Dual Master caution lights

2<sup>nd</sup> Magnetic Compass indicator

Digital clock

Flight Director









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