



AW 109 Trekker



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The AW109 Trekker is the latest multi-role light twin-engine helicopter, which guarantees superb utility through outstanding performance, payload and cabin space. The flexible, large and elegantly designed cabin can comfortably accommodate up to six passengers.

AW 109 Trekker

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Highlights

- Engine mounted fuel pump and filter assembly
- 3-cell crash-resistant fuel system (575l-152US gal)
- Stretcher*1
- 2nd VOR/ILS
- Helicopter Terrain Awareness and Warning System (HTAWS)
- Option for following removable parts: hoist, hook, mirrors, searchlight and EMS interior



YOM

2018



TOTAL TIME

170 hrs



ENGINE X2

W207C

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Avionics

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
- Dual Data Acquisition Unit (DAU) - Dual Air Data Computer and Attitude Heading

Reference System (ADAHRS)

- VHF/AM
- VHF/AM
- VOR/ILS
- GPS

Transponder (Mode-S) - Pilot Intercommunication System (ICS)

Magnetic Direction indicator

ADF DME

2nd GPS

Equipment

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

Shoulder harness with inertial reels (pilot)

Primer finished cabin walls

Portable fire extinguisher

Liners with integrated light soundproofing

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

Stretcher*1

Air conditioning ECU

Windshield Wiper

Rotor Brake



Airframe

Aluminium alloy and bonded panel fuselage

Semi-monocoque aluminium 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 material 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 refuelling 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



Single Pilot VFR & Dual Pilot IFR Avionics packages

VFR

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

Dual Data Acquisition Unit (DAU)

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

VHF/AM

VHF/AM

VOR/ILS

GPS

Transponder (Mode-S)

Pilot Intercommunication System (ICS)

Magnetic Direction indicator

Systems Data (on displays)

Dual Inter turbine gas temperature indicator (ITT°C)

Dual Engine torque indicator (TQ%)

Dual Compressor speed indicator (N1%)

Dual Turbine speed indicator (N2%)

Rotor speed indicator (NR%)

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

Dual hydraulic pressure system indicators (PSI)

Outside air temperature indicator (°C)

Dual DC voltmeter (VDC)

Dual DC ammeter (Amp)



Single Pilot VFR Avionic Package

Warning/Caution Advisory and Maintenance System

Master warning lights

Master caution lights

Warning, caution and advisory messages

Aural alerts

Engines fire detection system

Interior Arrangement

Crash-resistant pilot seat, fore and aft adjustable, with lap belts and headrest Shoulder harness with inertial reels (pilot)

Aluminium alloy honeycomb reinforced floor with anti-skid finishing

Ventilation ram air inlets

Anti reflection instrument panel

Primer finished cabin walls

Portable fire extinguisher

Exterior finishing

Finishing in accordance with manufacturer specification (NTA 89)

Primer exterior painting

Miscellaneous/Ground Equipment

Air intake/exhaust covers

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

Pilot tubes covers

Rotorcraft Flight Manual (RFM) and technical publications

Tie-down fittings (main rotor retention straps)

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Passenger Transport Cabin Interior

Passenger cabin

Liners with integrated light soundproofing

Intercommunication system for passengers

Cabin loudspeakers (Qty 2)

Reading lights, emergency lights

Upper and lower air vents

Headset H10-13H David Clark (Qty 6)

EMS/SAR configuration can be set up at cost upon request

Cockpit Equipment

Standard cockpit interior

Utility Equipment

Air conditioning ECU

Windshield Wiper

Rotor Brake

ELT

External rescue hoist (272 kg/600 lb) provision

Leonardo Helicopter painting scheme, metallic colours from

Company selection

Avionics Equipment

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

Dual controls

Co-Pilot large colour 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
- 2nd VHF/AM

- 2nd VOR/ILS
- 2nd GPS
- DF
- DME
- Marker beacon
- Electronic Standby Indicator
- Co-Pilot Intercommunication System (ICS)
- Dual Master warning lights
- Dual Master caution lights
- 2nd Magnetic Compass indicator
- Digital clock
- Flight Director

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Contact Universal Vulkaan Aviaiton to discuss your large-cabin executive helicopter needs.

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