


**2020 Leonardo
A109SP GrandNew**
#22418 | 3A-MDF



CONTACT

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VIRTUAL TOUR

2020 Leonardo A109SP GrandNew

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TOTAL HOURS

195 Hours Since New

ENGINES

Pratt & Whitney PW207C

#	TSN	CYCLES
1	195	131
2	195	122

HIGHLIGHTS

195 hrs since new

5 pax Elite interior

Float provisions, Aircon ECS

Wx Radar

213 US Gal fuel system

Warranty 2 yrs / 2000 hrs

GRANDNEW HELICOPTER (EASA/FAA) IFR STANDARD CONFIGURATION

AIRFRAME

Aluminium alloy / composite material and bonded panel fuselage
Semi-monocoque aluminium alloy tail boom
Three-wheeled retractable landing gear
Two hinged jettisonable crew doors (LH and RH)
Two sliding passenger doors (LH and RH), 1.40m 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 doors
Removable fairing and cowlings, for complete accessibility to the controls and drive components
Swiveling front wheel with tow bar attachment
Quick opening hinged inspection doors, to allow visual check of engine oil levels and maintenance inspection points
Grounding points
Jacking and hoisting points

ROTORS AND 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

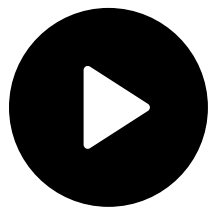
Two Pratt & Whitney Canada PW207C turbo-shaft engines
Two independent electronic control systems (FADEC) with normal emergency and training operation modes and auto-start
Engine mounted fuel pump and filter assembly
Engine mounted oil pump and filter assembly
Engine mounted fuel control and governor
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 pump (2)
Airframe mounted easy access fuel filter
RH refueling point
Ground fuel drains

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TRANSMISSION DRIVE SYSTEM AND 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
- Ripple dampers (2)
- 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

- 24 V DC 33 Ah nickel-cadmium battery with temperature probe
- 200 A self-cooled starter generators (2)
- Voltage regulators (2)
- Battery relay
- Interconnecting bus relays (2)
- External power relay
- Distribution buses (1 battery, 2 essential, 2 emergency, 2 main, 2 auxiliary)
- External power receptacle
- Position lights (NVG friendly)
- Taxing lights (2) and landing lights (2) on landing gear sponsors
- Anti collision lights (2) (NVG friendly)
- Cockpit utility lights (2)
- Instrument lights with dimming switch
- Radio master switch with ground function

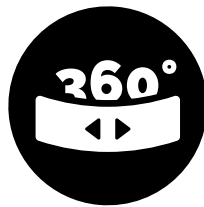
FLIGHT/NAVIGATION INSTRUMENTS

- Pilot flight/navigation EFIS (1 display) with slip indicator and Remote Bug Panel (RBP)
- Radio Management System (RMS) RTU-4210 Collins (1)
- VHF/AM VHF-4000E
- VOR/ILS NAV-4500 Collins
- Transponder (Mode S) TDR-94 Collins
- Attitude Heading Reference System (AHRS) (1) with one dual AHRS control panel
- Air Data Unit (ADU) (1)
- Digital Audio Control System (DACS) NAT with one cockpit panel
- Electronic clock (1)
- Magnetic compass indicator (1)
- Magnetic Sensor Unit
- Pitot tube right/left

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GRANDNEW HELICOPTER (EASA/FAA) IFR STANDARD CONFIGURATION

- INSTRUMENTATION (ON IDS DISPLAY)**
- LCD Integrated Display System (IDS)
 - Dual gas generator speed indicator (N1%)
 - Dual turbine outlet temperature indicator (TOT°C)
 - Dual torque meter indicator (TQ%)
 - Dual power turbine speed indicator (N2%)
 - Rotor speed indicator (NR%)
 - Transmission oil pressure (PSI) and temperature (°C) indicator
 - Two engine oil pressure (PSI) and temperature (°C) indicators
 - Two fuel pressure indicators (PSI)
 - Two fuel quantity indicators (kg)
 - Two fuel flow indicators (kg/hr)
 - Two flight controls hydraulic system pressure indicators (PSI)
 - Two utility hydraulic system pressure indicators (°C)
 - Outside air temperature indicator (°C)
 - Two AC voltmeters (VAC)
 - Two DC voltmeters (VDC)
 - Two DC ammeters (Amp)

- WARNING/CAUTION ADVISORY AND MAINTENANCE SYSTEM**
- Master warning lights
 - Master caution lights
 - Warning, caution and advisory messages (on IDS display)
 - Aural warning generator system
 - Engine fire detection system
 - Exceedance recorder system (on IDS display)
 - Warning horn (cabin)

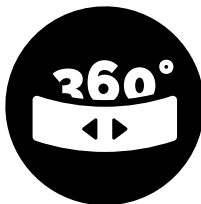
- INTERIOR ARRANGEMENT**
- Crash-resistant pilot seat, fore and aft adjustable, with lap belts and headrest
 - Aluminium alloy honeycomb reinforced floor with anti-skid finishing
 - Ventilation ram air inlets
 - Anti reflection instrument panel

- EXTERIOR FINISHING**
- Finishing in accordance with manufacturer specification (NTA 893 A)
 - Primer exterior painting
- MISCELLANEOUS/GROUND EQUIPMENT**
- Air intake/exhaust covers
 - Ground tools kit (including tow bar, lifting tool, wheel chocks)
 - Pitot tubes covers
 - Rotorcraft Flight Manual (RFM) and technical publications
 - Tie-down fittings (main rotor and tail rotor retention straps)

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STANDARD EQUIPMENT

Active Noise Reduction (ANR) headsets, pilot and co-pilot
Baggage Compartment Lights
Crash-resistant co-pilot seat, fore and aft adjustable, with lap belts and headrest
Crew open door actuators
First aid kit
Fuel Drain electrical valves
Internal structural provisions for utility equipment
Portable Fire Extinguisher
Shoulder harness with inertial reels, pilot and co-pilot
Tail boom strake

PAINTING

Utility Painting
Up to 4 colours from LHD selection
Customized Painting Scheme
Utility Finishing
Registration Marks and Logos (decal or stencil)

INTERIOR

Air conditioning ECS (Environment Control System)
Primer finished cabin walls

AVIONICS

Single Pilot Dual Controls IFR Avionics Package
Pilot flight/navigation EFIS (2 displays) with embedded FMS, Synthetic Vision (SVS), Helicopter Terrain Awareness and Warning System (HTAWS), Remote Bug Panel (RBP) and slip indicator
Co-Pilot flight/navigation EFIS (2 displays) with embedded FMS, Synthetic Vision (SVS), Helicopter Terrain Awareness and Warning System (HTAWS), Remote Bug Panel (RBP) and slip indicator
Reversionary Control Panel (RCP)
EFIS pilot/copilot navigation synchronization switch (FMS data)
Electronic Standby Instrument System (ESIS)
Second Radio Management System (RMS) RTU-4210 Collins
Second VHF/AM VHF-4000E Collins
VOR/ILS/ADF Nav-4000 Collins
DME DME-4000 Collins
Radio altimeter ALT-4000 Collins
Second Attitude Heading Reference System (AHRS)
Second Air Data Unit (ADU)
Pilot GPS/SBAS Chelton interface to EFIS/FMS
Co-pilot GPS/SBAS Chelton interfaced to EFIS/FMS

Digital Audio Control System (DACS) NAT additional cockpit panel
4-axis dual duplex digital AFCS with integrated Flight Director
Second electronic clock
Second magnetic compass indicator
ELT C406-N HM Artex (with Navigation Interface Module Embedded)
Dual controls

ADDITIONAL EQUIPMENT

Airframe hourmeter
Baggage compartment extension
Engine compartment fire extinguishers (Qty 2)
Fuel cap with key-lock
Pulsed chip detectors (in lieu of quick disconnecting chip detectors)
Reinforced windshield
Retractable/rotating landing light (nose mounted)
Rotor brake
Windshield wipers (pilot and co-pilot) with wiper switch on cyclic grips

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CUSTOMIZED CONFIGURATION

ELITE INTERIOR – 5 PLACES PASSENGER CABIN

All seats crash-resistant covered with leather
2 fwd facing seats (aft bench) with Elite central cabinet
3 aft facing seats (central bench) with see-through modification and with foldable armrest
4-point shoulder harness with inertial reels and safety belts for all passenger seats
Super silent soundproofing
Liners leather/Leatherette covered
Cabin double layer acrylic windows
Decoration trim with metal inserts
Intercommunication system for passengers
Headset Bose ANR type (Qty 5)
Cabin loudspeakers (Qty 2)
Reading lights, advisory lights, floor courtesy lights
Passenger hooks (Qty 4)
Upper and lower air vents
Floor carpeting
Carpeting protection
Seat covers

ADDITIONAL INSTALLED EQUIPMENT

USB charger at central bench (RH)
Electrically operated passenger step (RH)
Entertainment system including

- Display
- Jet map for flight information
- Multimedia files upload via USB
- WiFi module
- ICS interface
- Cockpit camera

8.4" cockpit central display
Traffic Advisory System TAS-620 Avydine
Weather Radar RDR 2000 Bendix/King
Digital Map Euronav VII Euroavionics interfaced to FMS (presented on 8.4" display)
Euronav V Map Extension Pack – Western Europe
24 V DC 33 Ah nickel-cadmium battery (20 cells) (in lieu of 19 cells)
213 US Gal crash-resistant fuel system (in lieu of 152 US Gal)
Baggage compartment extension (2.3m)
Strobe lights on horizontal stabilizer
Vertical baggage compartment door

Emergency floats provision
Engine washing kit provisions
ADS-B Out capable Transponder TDR-94 Collins
VVIP painting
Main Rotor blades high visibility painting
Foldable Tow bar

ELITE INTERIOR – 5 PLACES COCKPIT EQUIPMENT

Interseat console tray with 12 V power supply
Multipurpose holder (with space provision for fire extinguisher)
Right door pocket
Headset hooks (Qty 2)
Cyclic and collective leather gators
USB sockets for Pilot and Co-pilot
Cockpit access handle (RH)
Cockpit access handle (LH)
Map lights for pilot and co-pilot
Cockpit overhead tinted windows

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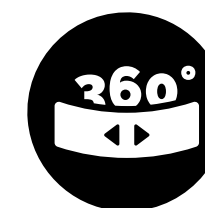
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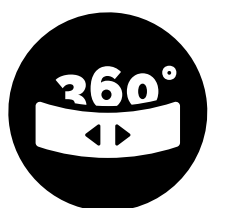
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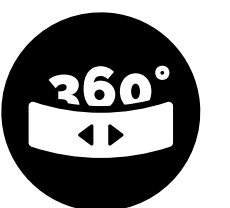
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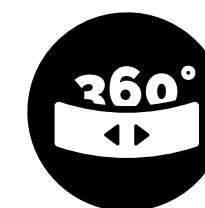
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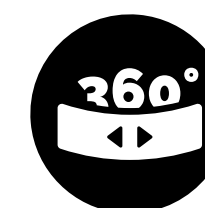
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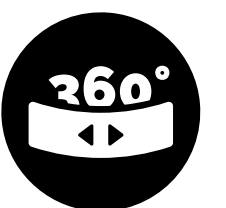
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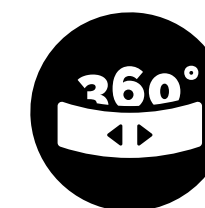
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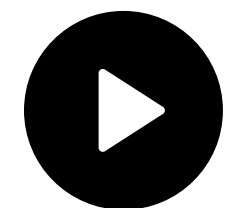


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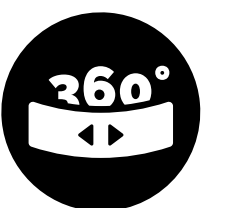
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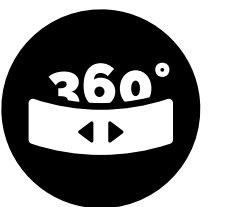
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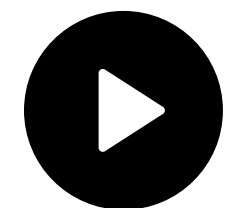


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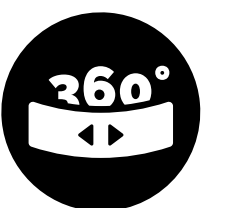
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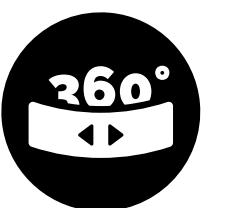
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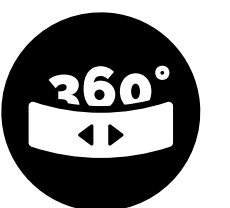
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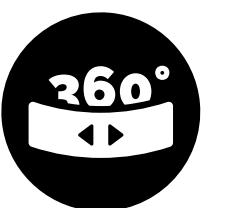
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