

2008 Agusta 109S Grand SN 22105

I. AGUSTAVESTLAND GRAND STANDARD SINGLE/DUAL PILOT IFR CONFIGURATION (EASA/FAA)

1.1 BASIC AIRCRAFT

Basic aircraft with cabin passengers sliding doors, equipped with P&W207C engines.

1.2 STANDARD ADDITIONAL EQUIPMENT

Pilot and copilot headsets
Pilot and copilot shoulder harness with inertia reel
Baggage compartment light
Crew open door actuators
Quick disconnecting chip detectors
Portable fire extinguisher
Structural provision for utility equipment (emergency floats, rescue hoist, cargo hook, weather radar, engine fire extinguisher, flight director, AFCS)
Fuel drain electrical valves
Tail boom strake
First aid kit
Airframe hour meter

1.3 SINGLE PILOT IFR/FAA AVIONIC PACK AGE (GARMIN - BENDIX/KING)

Pilot navigation instruments (LCD EADI and EHSI, stand-by ADI)
Gyrocompass C14 Honeywell
Vertical gyro #1 46060-11 Flightline System
Vertical gyro #2 VG-208 JET Electronics
3-axis duplex A F C S SP711 Honeywell
ADF KR-87 Bendix/King
Transponder (mode S) KT-73 Bendix/King
VHF#1 COM/NAV/GPS GNS530 Garmin
VHF #2 COM/NAV/GPS GNS430 Garmin M
DME KDM706A Bendix/KinefIT,
Marker beacon KMR675 Bendix/King
Pilot ICS (including pilot/copilot control panel, mode controller, audio cabin control)
AC power supply system (two inverters)

1.4 ADDITIONAL INSTALLED AVIONIC EQUIPMENT

- Copilot flight/navigation instruments (LCD EADI and EHSI, barometric altimeter, airspeed indicator, VSI)
Flight director with autotrim FZ 702 Honeywell
Radio altimeter AA 300 Honeywell
- ELT C406-2HM Artex
Moving map KMD 550 Bendix/King
Radio master switch with ground function
EFIS pilot/copilot in command switch

1.5 INSTALLED UTILITY/COMFORT EQUIPMENT

Dual control
Rotor brake
- 450 W Retractable/Rotating landing light
Pilot and copilot windshield wipers with wiper switch on cyclic grip
Engine compartment fire extinguishers
Baggage compartment extension (to 1.9 m)

1.6 INTERIOR

Air conditioning ECU Garret
Primer finished cabin walls
Passive vibration absorber

1.7 PAINTING

Single color painting scheme, solid colors, series 300

1.8 MISCELLANEOUS EQUIPMENT

Air intake/exhaust covers
Ptot tubes covers
Tie-down fittings provisions
Rotcraft Flight Manual and technical publications
Ground tools kit (including tow bar, lifting tool, wheel chocks)

2. AIRFRAME

Aluminium alloy and bonded panel fuselage
Semimonocoque aluminium alloy tail boom
Two hinged jettisonable wide crew doors (on both sides)
Two sliding passenger doors (on both sides) 1.40 m opening with jettisonable windows
Acrylic windshield and side windows
Acrylic overhead windows
Quick removable tail rotor drive shaft cover
Three wheel retractable landing gears
Separate baggage compartment with hinged door
Jacking and hoisting points
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

3. ROTORS AND CONTROLS

Fully articulated corrosion-protected titanium main rotor hub with 4 composite grips, 4 elastomeric bearings, 4 individually interchangeable composite blades with swept tips and dampers
Two composite tail rotor blades semi-rigid delta hinged type, individually interchangeable
Cyclic and collective controls powered by two separate-redundant hydraulic systems
Hydraulically powered anti-torque T/R control system
Adjustable friction devices on cyclic and collective system
Force trim and artificial feel system
Adjustable directional control pedals
Dynamic main rotor blade flapping lock mechanic

4. POWER PLANT AND FUEL SYSTEM

- Two Pratt & Whitney PW207C turboshaft engines
Two independent electronic control systems (FADEC) with normal' emergency and training operation modes and auto-start
Engine-mounted Fuel Management Unit (FMU), fuel pump and filter assembly
Engine-mounted oil pump and filter assembly
Lubrication and cooling system
Engine oil chip detectors (one per engine)
Engine control panel
Two independent fuel systems with cross-feeding valve and control panel
3-cell crash-resistant fuel system (460 kg - 152 USG)
Submerged fuel boost pump (one per system)

Airframe mounted easy access fuel filter
RH refueling point
Locking fuel cap
Ground fuel drains

5. TRANSMISSION DRIVE SYSTEM

960 shp for take off and 900 shp continuous operation main transmission with two direct drive engine inputs
Three stage transmission
Two free wheeling units
Two transmission mounted hydraulic pumps with separate reservoir
Internal dry sump transmission lubrication with pressure and scavenge pump and oil filter
Two transmission oil chip detectors
Single stage bevel gear T/R 90° gear box including oil level sight glass and chip detector
Transmission cooling and lubrication system
Transmission shafts (engines to transmission to tail rotor)

6. ELECTRICAL SYSTEM

24 volt DC 27 Ah nickel cadmium batter/ with temperature probe
Two 160 A self cooled starter generators
Two voltage regulators
Battery relay
Two interconnecting bus relay
External power relay
Distribution buses (1 battery bus. 2 essential buses. 2
External power receptacle
Two DC ammeters (on IDS display)
Two DC voltmeters (on IDS display)
Position lights
Two 150 W taxiing lights
Two 250 W landing lights
Two utility lights
Two anti collision lights
Instrument lights with dimming switch
Radio master switch

7. FLIGHT INSTRUMENTS- PILOT

Airspeed indicator
Instantaneous vertical speed indicator
Barometric encoding altimeter
Magnetic compass indicator
Clock. 8 days and elapsed time
LC Integrated Display System (IDS)

8. PROPULSION AND HYDRAULIC INSTRUMENT (ON IDS DISPLAY)

Dual torque meter indicator
Triple tachometer (one for the rotor and two for Nf)
Transmission oil temperature and pressure indicator
Two engine oil temperature and pressure indicator
Two fuel pressure indicator
Two fuel quantity indicator
Dual gas generator tachometer indicator
Dual turbine outlet temperature indicator
Two flight controls hydraulic system pressure indicators
Two utility hydraulic system pressure indicators

9. WARNING/CAUTION ADVISORY AND MAINTENANCE SYSTEM

Master Warning lights
Master Caution lights
Warning/Caution advisory (on IDS display)
Engine fire detection system
Aural Warning Generator system
Exceedance recorder system (on IDS display)

10. INTERIOR ARRANGEMENT

Two individual crash-resistant pilot seats fore and aft adjustable with lap belts
Aluminium alloy honeycomb reinforced floor with anti-skid finishing
Ventilation ram air inlets
Anti reflection instrument panel
Primer finished cabin walls

11. EXTERIOR FINISHING

Finishing in accordance with manufacturer specification 109-05-
Primer exterior painting

II. OPTIONAL EQUIPMENT

1. Executive Interior - 6 places

- a. Silent soundproofing
- b. Leatherette covered liners
- c. All seats crash-resistant covered with fabric
- d. 3 aft facing seats (central bench)
- e. 3 fwd facing seats (aft bench)
- f. 4-point shoulder harness with inertia! reels and safety belts for all passenger seats
- g. Reading lights, advisory lights, floor courtesy lights
- h. Cabin loudspeakers
- i. Floor carpeting
- j. Standard finishing

2. 213 USG crash-resistant fuel system

3. Customized painting scheme, metallic colors

4. Reinforced pilot and co-pilot windshield

5. Cabin double layer acrylic windows

6. Pilot and co-pilot multipurpose holders

7. Pilot and co-pilot console tray including 12 V outlet

8. Pulsed chip detectors

9. Baggage compartment extension (2,3 m)

10. High-intensity strobe lights on horizontal stabilizers

11. Fuel cap with key-lock

12. Super Silent soundproofing (in Lieu of Silent Soundproofiffg)

13. Electrically operated passenger step (RH)

14. Passenger seats with leather covering

PRICE: 5,950,000.







