



Hilti Air Ltd  
Hunsdon Hangar  
Elstree Aerodrome  
Borehamwood  
Herts  
WD6 3AR

#### Aircraft Specification

Manufacturer:	Airbus
Model:	H125
Manufacturer Serial Number:	9167
Registration:	G-HITK
No. of Engines:	1
Current Total Time:	20 (in weekly use)
Engine Make and Model:	Turbomeca Arriel 2D
Certificate of Airworthiness:	Category: Standard
	Issuing Authority: EASA / UK CAA

#### 1: Aircraft Details:

##### 1.1 – Baseline Helicopter

- H125 Baseline Aircraft I.A.W. H125 B3 20.100.01 E
- VFR Day and night package with integrated Flight Display Garmin G500 TXi, included in baseline definition:
- Emergency locator transmitter – Kannad 406 INTEGRA AP-H
- VHF/VOR/LOC/GS – Garmin GNC 255A
- Intercom System (ICS) – Garmin GMA 350H
- Transponder (mode S) – Garmin GTX 335R – ADS-B out capable
- VHF/VOR/LOC/GPS – Garmin GTN 650H
- Avionic display system Garmin G500H TXi

##### 1.2: General Equipment:

- First Aid kit
- High visibility paint scheme on main rotor blades (RED)
- Tinted windows for standard and optional door configuration
- Bulged window on right rear door
- Bulged window on left rear door
- Pilot windshield wiper
- Dual controls

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### **1.3: Mission Equipment**

- LH landing light (swivelling in elevation and azimuth)
- Cargo swing (1400kg) (fixed parts)
- Emergency floatation (fixed parts)

### **1.4: Avionics:**

- ICS installation compatible with Bose headsets
- Hour meter

### **1.5: Interior Layout**

- Comfort layout

## **2.0 AHUK Customisation:**

### **2.1 Helicopter Painting:**

- Helicopter painted Black / White – see pictures

### **2.2: Bose Headsets:**

- Six (6) Bose A20 blue tooth aviation headsets compatible with the ICS installation

### **2.3: I pad Mounts**

- 2 x Ipad mounts fitted either side of the main instrument panel – compatible with Apple Ipad Mini – note: I pad mini's NOT included

### **2.4: Commissioning:**

- EASA or CAA registered and certified

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### Definition of the Standard H125 aircraft

The helicopter meets the certification standards for day and night VFR operations, set by the following airworthiness authorities: EASA, FAA, TCCA, ANAC, CAAC, IAC-AR. This list is not restrictive and the status of approval by other airworthiness authorities must be checked. Additional equipment items may be required by the relevant operational authorities' certification regulation

#### General:

- The H125 is certified with a pilot being on the right hand side
- Dual controls are fitted to this aircraft
- Fuselage comprises of the cabin and 3 luggage holds with floor, tie down nets and access doors
- Tail boom with stabiliser, anti-torque rotor and fin with tail skid
- High skid landing gear with long footsteps (on both sides) and capable of taking handling wheels
- Lifting points
- Mooring fixtures
- Structural reinforcements for cable cutter
- Structural reinforcements for RH external mirrors
- Internal paint (grey)
- Interior signs and markings

#### Cabin:

- Cabin floor in light alloy sheet metal with tie down rings
- Cabin floor has grey carpet
- Pilot and co-pilot high back energy absorbing seats, adjustable in reach, removable, complete with cushions, safety belts and dual strap shoulder harness
- 2 jettisonable crew doors each fitted with sliding windows and improved side visibility windows: 1 large right hand front door and 1 LH front door
- Hinged rear right door extension for passenger and cargo
- 1 left hand rear sliding door
- Locks on every access to cabin and luggage compartments
- Lock on fuel
- 2 tinted upper panes
- 1 ceiling housing the ventilation ducts and controls (ventilation controls, rotor brake and fuel cut off)
- Cabin heating
- Demisting system for front windscreen
- Ram Air ventilation duct

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- Fixed parts for pilot and co-pilot windshield wipers
- 1 pilot document holder
- 1 fire extinguisher
- 1 flight manual

#### **Instruments:**

- Integrated Flight Display: Primary Flight Display / Navigation Display (PFD / ND)
- Primary Flight Display: airspeed, vertical speed, attitude, altitude, T&B, HIS with VOR
- Moving Map: Nav data, flight plan, high resolution helicopter dedicated terrain and obstacle databases
- 1 x LCD dual RPM tachometer (Rotor and Free Turbine)
- 1 x Stop watch
- 1 x warning panel
- 1 x heated pitot head
- 1 x external side slip indicator
- 1 x control box for light and electrical generation
- 1 x I.C.S. connected to aural warning issued from VEMD
- 1 x cockpit imaging and flight data monitoring device

#### **Standby Instruments:**

- 1 x electronic standby Instrument (ESI)
- 1 x Magnetic compass
- 1 x LCD Dual screen Vehicle and Engine Multifunction Display (VEMD) providing the following information:
  - First limitation indicator (FLI)
  - Torque meter
  - Exhaust gas temperature (TOT)
  - Gas generator tachometer (N1)
  - Engine oil temperature / pressure
  - Fuel quantity
  - Fuel flow and estimated remaining time to fly
  - Ammeter and voltmeter and battery temp
  - Outside Air temperature (OAT)

#### **Enhanced usage monitoring functions:**

- IGE/OGE performance calculations
- Engine cycles counting
- Engine power check
- Over limit display

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- VEMD and peripheral maintenance information
- Data downloading capability

#### **Avionics**

- 1 x avionics master switch
- 1 x VHF /VOR /LOC /GS
- 1 x VHF /VOR /LOC /GS /GPS
- 1 x transponder (Mode-S –ADSB out)
- 1 x emergency Locator transmitter
- 1 x ICS + passenger interphone

#### **Power Plant**

- 1 x Turbomeca Arriel 2D turbine engine complete with starting, fuel supply and dual channel digital engine control system (FADEC) and 1 back up control that automatically controls the engine in case of total failure of the 2 digital channels of the FADEC
- 1 x fuel system including 1 tank of 540 litres (143 US Gallons) total capacity
- 1 x twist grip on pilot side (for engine reduction in the case of tail rotor failure and auto rotation training)
- 1 x magnetic plug and chip detector
- 1 x engine lubrication and oil cooling system
- 1 x fire detection system
- 1 x air intake protective grids
- 1 x torque measurement pick up

#### **Transmission System**

- 1 x main gearbox, anti-vibration mounted, with oil sight gauge, chip detector, oil temperature and pressure switches, port for endoscope and self-sealing valve for oil sampling and draining
- 1 x main gearbox oil cooling system
- 1 x engine to main gearbox coupling shaft
- 1 x rotor brake
- 1 x main rotor high sensor and high and low RPM warning device
- 1 x tail drive carried by five anti friction bearings
- 1 x tail gearbox with oil sight gauge, chip detector and port for endoscopic inspection

#### **Rotors and Flying Controls**

- 1 x main rotor with 3 composite material blades around a Starflex head fitted with spherical thrust bearings
- High conspicuity paint on main rotor blades
- 1 x anti torque rotor with 2 composite material blades

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- 3 main rotor hydraulic servo units
- 1 x tail rotor hydraulic servo unit and a load compensation system

#### **Electrical Installation**

- 1 x 150A, 28v V DC starter Generator
- 1 x 28 V DC cabin power outlet
- 1 x 15 amp / hr cadium nickel battery
- 1 x ground power receptacle
- 3 x position lights
- 1 x flashing anti-collision light
- 2 x fixed landing lights
- 2 x adjustable emergency / reading map lights for crew
- 2 x cabin adjustable reading lights for passengers
- 1 x integrated instrument panel lighting system
- Integrated lighting in central console
- 2 x cockpit breaker panels
- 1 x USB charging dual outlet (instrument panel)

#### **Airborne Kit**

- 1 Pitot head cover
- 2 x Static port stoppers
- 1 x Engine air intake blanking cover
- 1 x Exhaust pipe blank
- 2 x ground handling wheels
- 1 x cargo net and rope
- 2 x upper mooring rings
- 1 x lifting ring
- 3 x main blade socks and pole
- 1 x tail rotor locking device
- 1 x document holder
- 1 x airborne stowage bag

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