

BASELINE AIRCRAFT DEFINITION

H130

The helicopter in the definition, presented hereafter, meets the certification standards for day and night VFR operations, set by the following airworthiness authorities: EASA, FAA, TCCA, ANAC, CAAC, FATA. This list is not restrictive and the status of approval by other airworthiness authorities must be checked. Additional equipment item may be required by the relevant operational or certification regulation (most of them are available in catalogue). H130 is the commercial name of the model referred to as EC130T2 in the Type Certificate.

GENERAL

- The H130® is certified with a pilot being on the left side
- The baseline aircraft is delivered with left side controls and capabilities for the removable dual controls (copilot controls are optional)
- Anti-Vibration Control System with 1 controller, actuators and accelerometers
- Fuselage comprising 3 luggage holds with floor tie-down nets, the cabin and access doors
- Tail boom with stabilizer, Fenestron® type anti torque rotor, and tail skid
- Tubular skid landing gear, with replaceable skid shoes, with long footsteps (on right and on left side), profiler on rear tube, capable of taking handling wheels
- Lifting points
- Mooring fixtures
- Single color exterior painting
- Internal paint: light grey (prevailing colour)
- Interior signs and markings: available in either French or English

COCKPIT / CABIN

- Cabin floor in light-alloy sheet-metal
- 1 pilot high-back energy-absorbing seat, longitudinally adjustable, removable, complete with cushions, safety belts and shoulder harnesses
- 6 passengers high-back energy-absorbing seats, removable, complete with cushions safety belts and shoulder harnesses:
 - 2 front right, including for 1 copilot (Longitudinally adjustable, copilot controls are optional)
 - 4 rear row
- 2 cockpit jettisonable hinged doors
 - 1 LH front door fitted with a sliding window
 - 1 RH front door compatible with 8 seat layout
- 1 LH rear sliding door
- 1 RH rear sliding door
- Locks on every access to cabin and luggage compartments
- Lock on fuel cap
- Lateral and upper tinted windows (windscreen excluded)
- 1 ceiling housing the cabin lighting, 7 air ventilation outlets and controls (rotor brake and fuel cut-off)
- Ventilation system available in flight, using ram scoops
- Cabin heating
- Demisting system for front windscreens
- 2 pilot document holders
- Door map case in LH and RH front doors
- Rear bulkhead and lateral rear upholstery
- 1 fire-extinguisher
- 1 Flight Manual: available in either French or English
- Interior harmony according to definition in force

INSTRUMENTS

- 1 Integrated Flight Display: Primary Flight Display / Navigation Display (PFD/ND):
 - Primary flight data display: airspeed, vertical speed, attitude, altitude, T&B, HSI with VOR
 - Navigation Display
 - ◆ Nav data, flight plan
 - ◆ High resolution helicopter dedicated terrain & obstacle database
- 1 LCD dual RPM tachometer (rotor and free turbine)
- 1 warning panel
- 1 heated pitot head
- 1 external side slip indicator
- 1 control box for light and electrical generation
- 1 ICS connection to audio warning issued from VEMD®
- 1 cockpit imaging and flight data monitoring device
- Standby instruments:
 - 1 Electronic Standby Instrument (ESI)
 - 1 magnetic compass
- Wireless Airborne Communication System (wACS)
- 1 LCD dual screen Vehicle and Engine Multifunction Display (VEMD) providing the following information:
 - First Limit Indicators (FLI)
 - ◆ torquemeter
 - ◆ 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 temperature
 - Outside Air Temperature (OAT)
 - Enhanced usage monitoring functions
 - ◆ IGE/OGE performance calculations
 - ◆ engine cycle counting
 - ◆ engine power check
 - ◆ overlimit display
 - VEMD and peripheral maintenance information
 - Data downloading capability (software and connection wire as option)

130 T2 24.100.03 E

AVIONICS

- 1 Emergency Locator Transmitter
- 1 VHF/VOR/LOC/GS
- 1 VHF/VOR/LOC/GS/GPS
- 1 ICS + passenger interphone
- 1 transponder (mode S – ADSB-out)
- 1 avionics master switch

POWER PLANT

- 1 ARRIEL 2D turbine engine complete with starting, fuel supply and dual channel digital engine control system (FADEC) and 1 back-up fuel control box that automatically controls the engine in case of a total failure of the 2 digital channels of the FADEC
- 1 crashworthy fuel system including 1 tank of 540 liters (143 US gal.) total capacity
- 1 twist grip on pilot side (for engine reduction in case of tail rotor failure and autorotation training)
- 1 magnetic plug and 1 chip detector
- 1 engine lubrication and oil cooling system
- 1 fire detection system
- 1 air-intake protection grids
- 1 torque-measurement pick-up

TRANSMISSION SYSTEM

- 1 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 main gearbox oil cooling system
- 1 engine to main gearbox coupling shaft
- 1 rotor brake
- 1 main rotor r.p.m. sensor and high and low r.p.m. warning device
- 1 Supercritical Rear Drive System
- 1 tail gearbox with oil sight gauge, chip detector and port for endoscopic inspection

ROTORS AND FLIGHT CONTROLS

- 1 main rotor with 3 composite-material blades around a Starflex® head fitted with spherical thrust bearings
- 1 anti-torque rotor (Fenestron) with 10 asymmetrical blades, integrated in vertical fin
- 3 main rotor hydraulic servo units (duplex servos)
- Integrated back-up control valve on each body of each duplex servo

HYDRAULIC GENERATION

- 2 independent hydraulic systems feeding the duplex servos

ELECTRICAL INSTALLATION

- One 150 A, 28 VDC starter-generator
- One 28 V DC cabin power outlet
- One 15 A.h cadmium-nickel battery
- 1 ground power receptacle
- 3 position lights (LED)
- 1 flashing anti-collision light (LED)
- 2 fixed landing lights
- 2 cabin light sets, each with 2 reading lights for 2 rear passengers and 1 dome light
- 1 integrated instrument panel lighting system
- Integrated lighting in central console
- 1 reading map light on upper canopy strut for pilot
- 1 cockpit breaker panel
- 1 USB charging dual-outlet (type A) (L/H side instrument panel)
- 1 tablet holder (L/H side instrument panel)

AIRBORNE KIT ¹

- 1 pitot head cover
- 2 static port stoppers
- 1 engine air-intake blanking cover
- 1 front air-intake blanking cover
- 1 fuel tank bleeding
- 1 exhaust pipe blank
- 2 hydraulic ground handling bogies
- 1 cargo net and rope
- 1 lifting ring
- 2 upper mooring rings
- 3 main-blade socks and pole
- 1 document holder
- 1 airborne kit stowage bag
- 3 ballast plates

130 T2 24.100.03 E

¹ Weight not included in baseline aircraft empty weight.

CONFIGURATION H130 (#5)

EC 130 T2 STANDARD AIRCRAFT

According to technical definition 130_T2_23-100-01-E_G500

Basic aircraft components

EC130 T2 Baseline Aircraft including:

Standard	2 pilot and copilot high-back energy-absorbing seats
Standard	1 passenger high-back energy absorbing seat (front right)
Standard	4 passenger high-back energy absorbing seats (rear row)
Standard	1 rear left sliding door
Standard	1 right rear sliding door
Standard	VEMD and peripheral maintenance information
Standard	~~Single colour exterior painting~~

VFR day and night package included in Baseline definition

Emergency locator transmitter - Kannad 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

VHF/VOR/LOC/GS/GPS - Garmin GTN650Xi

Avionic display system Garmin G500H Txi

EFD-750 Electronic Standby instrument will be replaced by GI275 post standard oct 2022

Dual Screen Vehicle and Engine Multifunction Display (VEMD)

15-55130-01-00 Delivered without external paint

General equipment

05-25027-00-CI	Enhanced Engine Air Particle Separators
05-31025-00-CI	Tinted windows for front windscreens
05-31033-00-CI	Sun protected upper windows
05-37015-00-CI	Dual controls
05-42025-03-CI	Enhanced Air conditioning system
05-63013-00-CI	Starter-generator Skurka 200A, instead of Skurka 150A in baseline

Specific mission equipment

06-26026-00-CI ECL	Dual external mirrors for cargo sling operation (pilot side)
06-27048-00-FP	Cargo sling (1500 kg - 3.307 lb) - Fixed Parts
06-27048-00-RP	Cargo sling (1500 kg - 3.307 lb) - Removable Parts
06-61006-00-FP	Emergency floatation gear - Fixed Parts
06-61006-00-RP	Emergency floatation gear - Removable Parts

Interior Layout

07-24005-00-CI	8 Energy-absorbing seats layout
07-40006-03-CI	Cabin carpet for 8 seats layout

Avionics

08-18037-01-CI	ICS installation compatible with Bose headset
08-21038-04-CI	Radio altimeter Thales AHV1600
08-81047-01-CI	Light Data Recorder (LDR)
08-83017-00-CI	VEMD data download kit