

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, TC. 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 regulation (most of them are available in catalogue).

GENERAL

- The EC130 T2[®] is certified with a pilot being on the left side
- The baseline aircraft is delivered with left side controls and fixed parts of the removable dual controls (the removable parts of removable dual controls are optional)
- Anti-Vibration Control System with 1 controller, actuators and accelerometers
- Fuselage comprising the cabin and 3 luggage holds, with floor tie-down nets 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
- 2 pilot and copilot high-back energy-absorbing seats, adjustable in reach, removable, complete with cushions, safety belts and shoulder harnesses
- 1 passenger high-back energy-absorbing seat (front right), removable, complete with cushions, safety belt and shoulder harness
- 4 passenger high-back energy-absorbing seats (rear row), removable, complete with cushions, safety belts and shoulder harnesses
- 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)
- Dynamic ventilation system
- 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 airspeed indicator
- 1 altimeter
- 1 vertical speed indicator
- 1 LCD rotor and free turbine dual indicator
- 1 clock
- 1 warning panel
- 1 magnetic compass
- 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
- 1 LCD dual screen Vehicle and Engine Multifunction Display (VEMD) providing the following information:
 - First limitation 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 cycles counting
 - ◆ engine power check
 - ◆ overlimits display
 - VEMD and peripheral maintenance information
 - Data downloading capability (software and connection wire as option)

AVIONICS

- 1 avionics master switch
 - 1 gyro-horizon
 - 1 gyro-compass with
 - 1 horizontal Situation Indicator
 - 1 turn and bank indicator
 - 1 VHF/VOR/LOC/GS
 - 1 VHF/VOR/LOC/GS/GPS
 - 1 transponder (mode S)
 - 1 altitude encoder
 - 1 Emergency Locator Transmitter
 - 1 ICS + passenger interphone
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POWER PLANT

- 1 Turbomeca 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
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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 high and low r.p.m. warning device
 - 1 tail drive carried by five anti-friction bearings
 - 1 tail gearbox with oil sight gauge, chip detector and port for endoscopic inspection
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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
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HYDRAULIC GENERATION

- 2 independent hydraulic systems feeding the duplex servos
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ELECTRICAL INSTALLATION

- One 150 A, 28 VDC starter-generator
 - 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
 - One 28 V DC cabin power outlet
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AIRBORNE KIT ¹

- 1 pitot head cover
 - 2 static port stoppers
 - 1 engine air-intake blanking cover
 - 1 tail-pipe cover
 - 2 ground handling bogies
 - 1 lifting ring
 - 2 upper mooring rings
 - 3 main-blade socks
 - 1 document holder
 - 1 airborne kit stowage bag
 - 1 front air-intake blanking cover
 - 1 fuel tank bleeding
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¹ Weight not included in baseline aircraft empty weight.