Civil

EC130 T2

AIRBUS HELICOPTERS

EC130 T2

ROOMY, SILENT AND A SMOOTH RIDE

The EC130® T2 is a light single-engine helicopter including all the latest technology and a roomy modular cabin that can accommodate 1 pilot plus up to 7 passengers.

It is the quietest helicopter on the market: its Fenestron® tail rotor and automatic variable rotor speed control result in a significantly reduced external sound level.

The Turbomeca Arriel 2D turbine engine, which includes a new generation dual-channel FADEC (Full Automatic Digital Engine Control) system with a third independent and automatic back-up channel, provides increased power. Integrated VFR equipment coupled with a Global Positioning System (GPS) are standard for day and night missions.

All EC130 T2 systems are newly improved and very easy to maintain.

Thanks to its formidable visibility, quietness, comfort, performance and safety, this versatile helicopter is a key member of Airbus Helicopters' Ecureuil® family.

The EC130 T2 is particularly suitable for passenger transportation, as well as for EMS, law enforcement and aerial work missions.


GYP

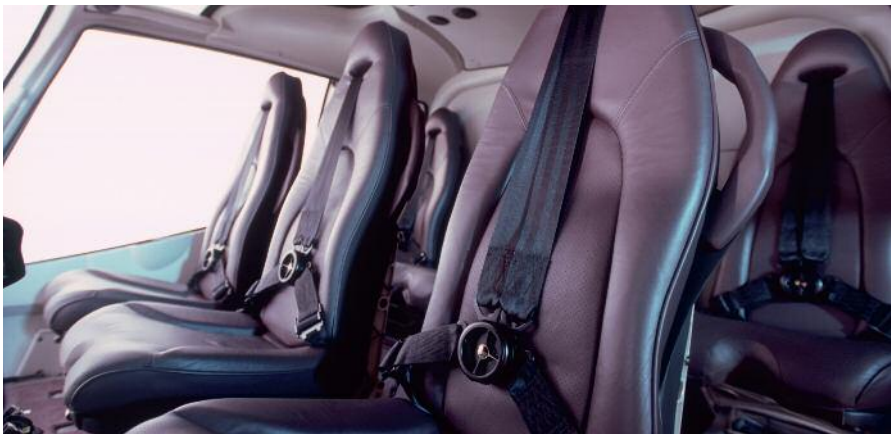
Business and Private Aviation

Travellers may enjoy a restful journey thanks to the EC130 T2's very low internal sound level, exceptional visibility and efficient air conditioning system. The Fenestron tail rotor makes the aircraft extremely discreet when flying over urban areas. This user-friendly helicopter is pleasant and easy to fly for the pilot. The new generation piloting aids, such as the Vehicle and Engine Multifunction Display (VEMD), reduces the pilot's workload considerably, thus enhancing flight safety.

High Tech comfort

The EC130 T2 can carry 1 pilot and up to 6 passengers in high-tech comfort with facing-forward energy-absorbing seats. A large sliding door and long boarding steps on both sides allow an easy cabin access.

Energy absorbing seats



The interior of the EC130 T2 can also be customized for VIP requirements

Luggage compartment

Safety on the ground

Tourism Operations

The EC130 T2, with its Fenestron tail rotor, is one of the quietest helicopters in the skies, setting the standard for tour operations worldwide. Its very low sound level is 7 dB below the ICAO requirement and remains quieter than the most restrictive limits defined by the Grand Canyon National Park. The only sound you will hear will be the sigh of wonderment from passengers enjoying the spectacular view offered by the large windows. The wide, unobstructed cabin with all forward-facing seats can accommodate 1 pilot and up to 7 passengers and provides an outstanding visibility.

The sound of silence

The EC130 T2 incorporates all the latest state-of-the-art technologies, materials, systems and avionics. This new generation aircraft benefits from the proven experience of the Ecureuil family, resulting in an exceptional availability rate. In the open space cabin, passengers can enjoy the spectacular view and are comfortably seated on a raised “theatre-style” platform in the rear. The forward-facing, energy-absorbing seats provide passengers with ample legroom. The low internal sound level and the efficient air conditioning system contribute to making the journey unforgettable.

Over flying in New York

Emergency floatation system

7-seat configuration

Incredible visibility

EMS Missions

The quick and easy engine start-up sequence and the high performance of the EC130 T2 ensure rapid and efficient interventions when saving lives. Its manoeuvrability and visibility enable the pilot to land more safely in confined areas.
The VEMD decreases the pilot's workload, enabling him to carry out critical missions in optimal safety. The Fenestron ensures safety in flight when manoeuvring close to obstacles and for personnel and patients on the ground.

Exceptional visibility

Designed for Your Missions

Thanks to its exceptional cabin size and dedicated medical configuration, the EC130 T2 is considered as the reference aircraft in this domaine.
The wide, unobstructed cabin with its large sliding doors enables easy loading and unloading of stretchers with a rapid access for medical personnel. Doctors and paramedics have plenty of space to take care of patients during the fight.

The low internal sound level and the flat cabin floor offer a suitable environment to install both fragile and bulky medical equipment.
The EC130 T2 offers adjustable energy-absorbing seats to accommodate 1 stretcher, 2 medical attendants and 1 seat.

Law Enforcement Missions

The EC130 T2 is ready in no time for all types of law enforcement operations. Its quick automatic engine start-up sequence, excellent performance and availability rate, obtained through an easy and affordable maintenance concept, allow this aircraft to get the job done quickly. The spacious, unobstructed cabin provides exceptional visibility and sufficient space to install all necessary equipment. Its unique quietness (7 dB under ICAO limits) allows pilots to conduct efficient surveillance operations.

Discreet protection

With the VEMD, the pilot can concentrate solely on the mission, thus enhancing flight safety.
The EC130 T2's cockpit has enough space for the installation of a fully-integrated tactical instrument and equipment console.

Electro Optical System

Search light

Aerial Work Missions

The EC130 T2 offers many possibilities for operators thanks to its wide, unobstructed, flat-floor cabin, able to accommodate an array of equipment to provide outstanding mission flexibility.
The exceptional cabin size makes this helicopter the perfect choice for cargo transportation. The EC130 T2 is always ready for aerial work mission with its cargo-sling load capacity: 1,500 kg / 3,307 lb.

The high performance of the EC130 T2 allows for easy sling operations. The pilot has increased visibility for long line operations when seated in the energy-absorbing seat on the left side of the cabin.
Thanks to the VEMD, the pilot can concentrate more on the mission: an audible warning is emitted when the engine reaches its first limitation. During load transportation, the EC130 T2 remains remarkably stable thanks to the design of its landing gear and the large horizontal stabilizer, combined with its large cabin.
The Fenestron ensures safety for personnel on the ground and prevents the tail rotor blades from hitting obstacles when landing or manoeuvring in confined areas.

VEMD®

Mission Capabilities:

- Cargo load operations
- Freight transportation
- Aerial photography
- Parachute dropping


More safety with EC130 T2 outstanding visibility


Flat floor

Support and Services

At Airbus Helicopters, supporting your helicopter operations with the highest level of excellence is our priority. We are dedicated to meeting our customers' needs, whether it be maximizing flight revenues, ensuring public safety or saving lives.
In order to provide customized services, we offer:

- A worldwide service network of 30 customer centers more than 100 distributors, representatives, training centers, repair and overhaul facilities and maintenance centers around the globe, as well as logistic hubs in France, Hong Kong and the USA
- Customer Service Centers in Europe, Asia and the USA offering around-the-clock customer assistance, 7 days a week, 365 days a year to keep you in the skies
- A wide array of service solutions to meet all your needs in terms of technical support, component repair and overhaul, spare parts support, technical publications and training — at Airbus Helicopters facilities worldwide or at your own facilities.

Easy Maintenance

The EC130 T2's simple design, the use of composite materials and the experience drawn from the mature, proven Ecureuil family contribute to reduce maintenance costs and to offer a high availability rate of the aircraft.

The advanced technologies integrated in this new generation helicopter help pilots and technicians with their daily maintenance tasks, since, for example, the maintenance data is recorded by the VEMD.

The EC130 T2 has been designed with a full "Integrated Logistics Support" process.
Support activities were taken into account during the design and development phase:

- Low maintenance cost: simple and easy to maintain
- Maximum Availability: the majority of maintenance tasks performed by the operator
- Worldwide customer service network

Maintenance Approach

- Service Life Limit
- On-condition
- Time Between Overhaul

Scheduled maintenance

- Limited to only 3 types of inspections
- Complementary inspection: every 150 hours or every 12 months
- Basic inspection: every 600 hours or every 24 months
- Major inspection: every 12 years

Comprehensive Basic Support

From the moment you purchase your aircraft, you will have access to all Airbus Helicopters services, such as:

- Customer Service Center
- Initial Parts Provisioning
- Warranty
- Technical support
- On-site technical assistance
- Technical publications
- Type rating for pilots and technicians.

Additional Services

Airbus Helicopters can also provide the following services solutions:

Field Service

Our field technicians are equipped with the latest diagnosis technology and are trained and qualified according to the most demanding qualification regulations.

Extended Repair & Overhaul

A large repair and overhaul network with one single interface to manage your maintenance, based on a unique technical know-how and our first class engineering made up of trained and highly qualified technicians.

Tailored support solutions

For EC130 T2 operators, Airbus Helicopters offers tailor made services to match your operational requirements:

- Consulting services such as "Collaborative Supply Chain" solution
- Reactive transportation service capable of delivering worldwide
- Standard Exchange service to support your aircraft availability and inventory optimization
- Guaranteed Turn-Around-Times will enable you to better schedule your maintenance

Training

- From advanced training tools to Full Flight Simulators:
  CAI (Computer Aided Instruction), CBT (Computer Based Training)
- Mission-oriented training programs based on specific operations are also available, including safety and survival training, survival and rescue training.

Technology

The EC130 benefits from the proven experience of the Ecureuil family. It integrates Airbus Helicopters' most advanced technology: the well-known Fenestron, a dual-channel FADEC unit with a third independent and automatic channel for engine control and an automatic variable main rotor speed system to reduce external sound level.
It is fully equipped with a VFR day and night navigation system (standard "ready to fly" package) associated with a VEMD integrated instrument panel and a GPS map display. All these innovations make the EC130 the safest and the most high-tech aircraft in its category.

Exclusive landing gear

Improves aerodynamic effects and prevents ground resonance (patented design).

A quiet Fenestron

- Efficient
- Powerful (demonstrated lateral flight at 47 kts)
- Low vulnerability
- High level of safety for ground personnel
- Very low external sound level (7 Db below ICAO limit)
- Easy maintenance
- Highly resistant to impact damage

STARFLEX® Main rotor head

This proven and reliable component has an automatic variable speed control system that systematically adapts the rating of the main rotor to the flight phase in order to reduce the external sound level, without jeopardizing available power.

Composite main rotor blades

- Highly resistant to impact damage
- Corrosion resistant
- Long service life limit

Standard energy-absorbing seats

for all crew and passengers

Vehicle and Engine Multifunction Display (VEMD)

The VEMD is a full duplex equipment, offering a display of self-monitoring engine and vehicle parameters on a full color LCD display.

It provides several display modes:

- operational (mission and performance calculation, automatic engine power check)
- maintenance (flight report, failure and over limit detection).

The VEMD considerably reduces the flight crew's workload and improves safety, as the pilot can see all the parameters, including First Limit Indicator (FLI) at one glance.

T2 Evolution

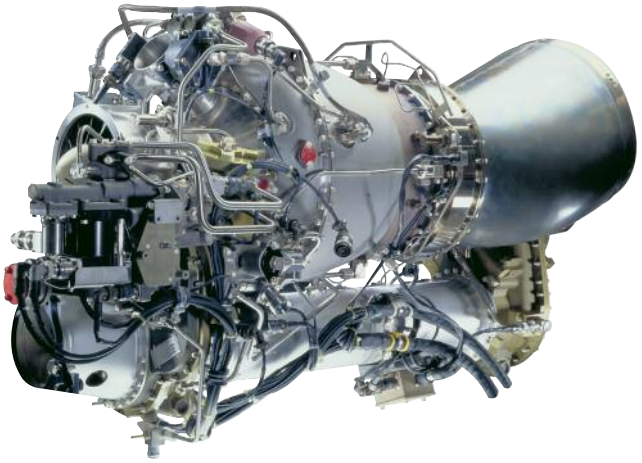
This newcomer in the successful Ecureuil range is equipped with the brand new Turbomeca Arriel 2D engine and more than 70% of the airframe has been modified. This substantially increases the versatility of the EC130 T2, making it better equipped to answer to the challenges of additional missions such as high and hot operations and aerial work.
Thanks to its optimized maintenance cost and operational benefits, it is a truly economical solution always combined with the highest level of safety.

70% of the airframe has been modified

More Payload, Lower DMC & DOC

New generation Arriel 2D engine

- Extended Time Between Overhauls (4,000 Hrs TBO at entry into service with 6,000 Hrs TBO when mature)
- Lower fuel consumption
- More predictable maintenance
- Allows operations in high and hot conditions



More Versatility

Large flat floor cabin
Higher capacity of cargo-sling
Quick configuration change

- Passenger <=> Freight Transport

Easy Access

New metallic hinged doors & right-hand sliding door

- Easier to operate
- Improvement: weight - quality - reliability

Electrical Maintenance trays & additional foot steps

- Easier to maintenance

Significantly More Comfortable

New air-conditioning system

- Excellent cabin repartition
- Highly efficient - outstanding reliability
- Easier maintenance

New Active Vibration Control System (AVCS)
inherited from the EC225, brings outstanding comfort and security

- Makes the flight smoother and more enjoyable

Improved center of gravity diagram

- Eases the distribution of passengers throughout the cabin

Safety

Crashworthy fuel tank certified (EASA)
Dual hydraulic system
Both included in the baseline configuration of the helicopter.

Finest Man Machine Interface

- Reduce pilot workload
- New cockpit design
- New control box and breaker panel

Vision 1000
Low cost image & cockpit recorder + basic HFDM

Characteristics

The EC130 T2's components are common with the Airbus Helicopters light helicopter range, ensuring a reliable, high performance aircraft.
Its proven technology and simple design provide operators with an extremely high rate of availability.

CAPACITY		
Passenger transportation	1 pilot + 6 passengers in standard or Stylence® configuration 1 pilot + 7 passengers in "8 seats layout" configuration	
Casualty evacuation	1 pilot + 1 stretcher + 2 medical attendants + 1 seat	
Cargo transportation	1 pilot + 3.7 m3 (130.7 ft3) load in cabin	
Weight		
Maximum takeoff weight (MTOW)	2,500 kg	5,512 lb
Maximum takeoff weight with external load	3,050 kg	6,724 lb
Empty weight, standard aircraft	1,433 kg	3,159 lb
Useful load	1,067 kg	2,352 lb
Maximum cargo-sling load	1,500 kg	3,307 lb
Standard fuel capacity	426 kg	939 lb
Engine (ISA, SEA LEVEL)	1 Turbomeca Arriel 2D turboshaft engine	
Takeoff power	710 kW	952 shp
Maximum Continuous Power	638 kW	856 shp
Performance at Max. TAKEOFF WEIGHT (ISA, SEA LEVEL)		
Maximum speed (Vne)	287 km/h	155 kts
Fast Cruise speed at MCP	236 km/h	127 kts
Rate of climb	8.0 m/s	1,600 ft/min
Hover ceiling OGE at takeoff power	2,950 m	9,675 ft*
Range without fuel reserve, at fast cruise speed,with standard tanks	606 km	327 NM
Endurance (without reserve)	4 hr 00 min	
Operation Limitations		
Maximum operating altitude	7,010 m (PA)	23, 000 ft (PA)
Minimum temperature	- 40° C	- 40 ° F
Maximum temperature	ISA + 35° C (limited to + 50° C) / ISA +95° F (limited to 122°F)	

* Performance demonstrated for 2,465 kg (5,434 lb)

Glossary

AVCS: Active Vibration Control System
CAI: Computer Aided Instruction
CBT: Computed Based Training
EMS: emergency medical services
FADEC: Full Authority Digital Engine Control
GPS: Global Positioning System
ICAO: International Civil Aviation Organization
LCD: Liquid crystal display
OGE: Hover Out Of Ground Effect
PA: Pressure Altitude
VEMD: Vehicle Engine Monitoring Display
VNE: Never Exceed Speed

THE VALUE OF EXPERIENCE

THE ECUREUIL FAMILY

The EC130 has evolved from the vast experience accumulated by some 279 operators;
some 503 helicopters have been ordered in 60 countries.
The in-service EC130 fleet has logged more than 1 177 000 hours and the fleet leader has flown 18,300 hours.


F-WGYP

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Printed in France by Hemisud

Printed on PEFC certified paper originating from sustainable forests.

EC130 T2-BR-0914E