





Aerial Work

The EC120 B plays a large role in the Aerial work sector, thanks to its dependability, efficiency, quietness, comfort and safety. Designed with the word "adaptability" in mind, this aircraft will be able to perform whatever task your mission requires.

The EC120 B's simplicity is the key to its versatility-easily configured and reconfigured, the helicopter comes with a large list of optional equipment for a variety of aerial work missions.



Unparalleled mission flexibility

The EC120 B offers state-of-art integrated technology that allows the pilot to concentrate solely on the mission itself. The aircraft's exceptional visibility, impressive manoeuvrability and stability coupled with its VEMD® considerably reduce the workload, all while enhancing safety.

The cabin and the large baggage compartment can accommodate a variety of cargo and bulk loads, and the flat, unobstructed floor makes loading and unloading effortless. Its very low fuel consumption and ease of maintenance are why the EC120 B boasts the lowest operating cost in its class.

Optional Equipment

- Cargo sling
- Electrical external mirror
- Windshield wipers
- Skis
- Wire strike protection system
- Sand filter
- Air conditioning
- Emergency floatation gear





Passenger Transportation

In the passenger transportation configuration, the EC120 B provides outstanding comfort in its spacious cabin – a highly appreciated feature of a light helicopter. In the extra-large cabin, four passengers and one pilot can travel at ease and in full security thanks to the energy absorbing seats, and the wide, unobstructed windows provide exceptional visibility.



The EC120 B is neighbourhood friendly, thanks to its exceptional low sound level which doesn't disturb when flying over urban areas.

The large baggage compartment is easily accessible from the rear and right-hand side and can hold up to five suitcases. There is also a possible access from the cabin thanks to a removable panel.

The EC120 B is also available in the exclusive Stylence® version, specially designed with corporate needs in mind.







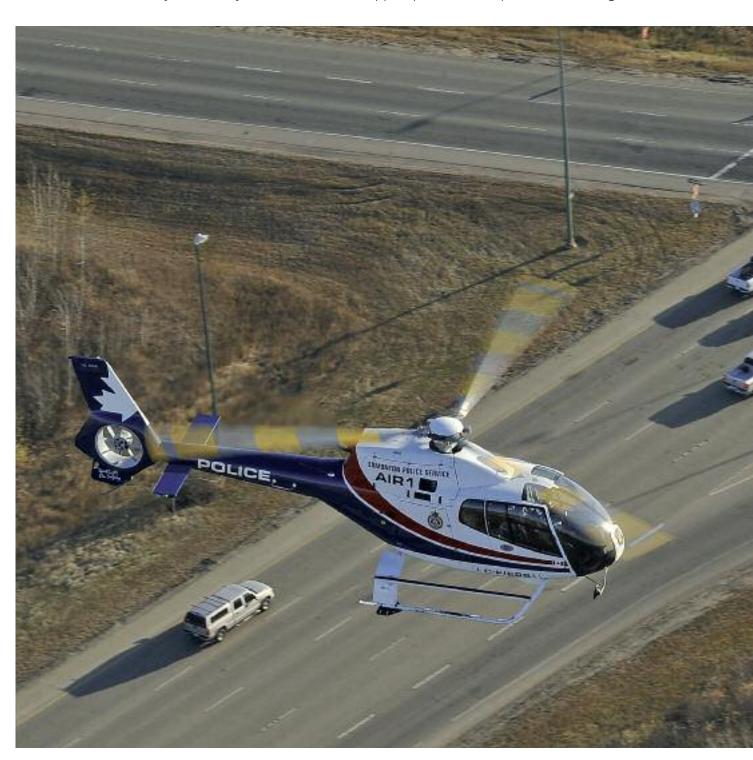




Baggage hold

Law Enforcement

The EC120 B is the perfect helicopter for law enforcement missions – it can get the job done while remaining cost-efficient. Thanks to its low empty weight and powerful engine, the helicopter can carry a wide variety of police equipment: forward looking infra-red (FLIR) cameras, search light, hailers, etc. Its high endurance capability and unmatched quiet technology (6.7 dB under ICAO limits) make it the perfect surveillance platform for police operations, ranging from traffic control to ground support. Some police forces have even dubbed the EC120 B as their "eye in the sky," thanks to the air support provided for operations on the ground.



Mission Capabilities

- Surveillance
- Crowd control
- Anti-terrorist support
- Firefighting support
- Drug enforcement and detection
- Aerial support to ground operations
- Border patrol



The bad guys don't stand a chance

This helicopter offers an unmatched visibility and a wide unobstructed flat floor cabin allowing room for both police forces and equipment. Its low vibration level provides outstanding comfort for long flights and allows for the installation of all types of police equipment and avionics necessary to accomplish the mission.

And with its high manoeuvrability and dispatch reliability, the EC120 B can respond at a moment's notice.

Thanks to the integration of the latest technologies, the EC120 B has proven to be the safest, most efficient aircraft in its class for law enforcement missions.

Environmental surveillance





Training

The EC120 B is a great helicopter for both initial and recurrent pilot training thanks to its compact size, reduced operating cost, ease of use, simple design and large cabin visibility. Equipped with the most advanced technologies and enhanced energy absorbing systems (seats, main structure, fuel tanks), the EC120 B can perform training missions in optimal safety conditions.





Easy handling for trainees

- Dual controls, twist-grip throttle, rotor brake
- Positive control response
- First limit indicator (T4, Torque, engine RPM reading)
- Performance computation (HOGE, HIGE)
- Endurance calculation (optional)



Simplicity without compromise

The EC120 B is certified for both left and right seat piloting. The pilot and co-pilot stations have exactly the same controls, enabling the instructor to take control of the helicopter whenever necessary.

The modern and simple instrumentation is ideal for training sessions, but will also help pilots to easily fly other helicopters with similar ergonomic cockpit designs, which is a Airbus Helicopters' family concept. This will help the trainee to become familiar with other high-tech helicopters.

Low operating costs

Thanks to its simple maintenance program and low fuel consumption, overall training costs remain low as well.

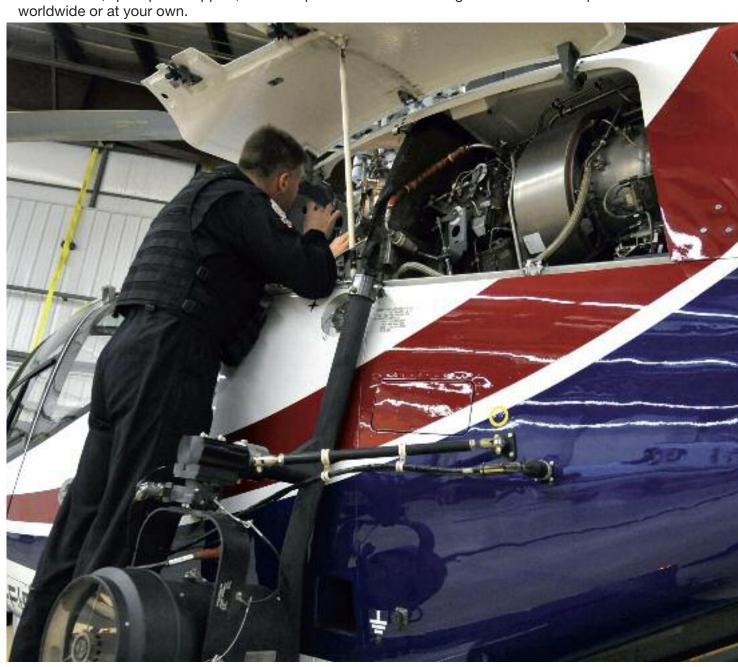


Support & Services

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 subsidiaries and participations; more than 100 distributors, representatives, training centers, repair and overhaul facilities and maintenance centers around the globe; and logistic hubs in France, Hong Kong and the United States
- Customer Service Centers in Europe, Asia and the United States 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 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.



So easy you can do it yourself

The EC120 B has been designed with a fully integrated logistic support process, which means that support activities were taken into account during the design and development phase.

- Low maintenance cost: simple to understand and easy to maintain
- Maximum availability: many maintenance tasks can be performed by the operator
- Convenient customer service network
- Innovative maintenance with fully integrated services

Operational maintenance

 Reconditioning via parts exchange or modules offered to operators for every system including transmission





Scheduled maintenance*

- Upon demand: Blocked full inspection or distributed inspection
- Limited only to four types of inspections:
 - 100 Flight Hours or 12 months
 - 500 Flight Hours or 24 months
 - 1500 Flight Hours or 72 months
 - 12 years
- No major overhaul

Maintenance tools

- No test bench required
- Limited number of tools needed for scheduled maintenance
- * Excluding engine and potential corrective maintenance



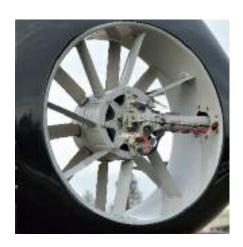


Technology

The EC120 B integrates technologies more advanced than any other light single-engine helicopter in its class in the world. These advances help make the aircraft easier to fly, safer and more cost-effective. Designed with simplicity in mind, the EC120 B is one of the most user-friendly aircraft available. The EC120 B is the first single-engine helicopter to meet the requirements of the new JAR 27 safety regulations (crashworthy fuel systems, energy attenuating fuel structure and seats).



The Next Generation Technology, Today





New generation of Fenestron® tail rotor:

- Low sound level
- High ground clearance
- No servo controls (low costs)
- Safety on ground and in flight

The EC120 B is equipped with dual controls, a twist-grip throttle, rotor brake and a VEMD® indicating the torque, engine RPM and temperature limits.

Instrument panel:

Ergonomic and state-of the-art, the instrument panel includes the VEMD® for the management and control of the main vehicle and engine parameters. The sophisticated VEMD® monitoring system decreases the pilot's workload, allowing him to concentrate fully on the task at hand.

Energy absorbing seats



High performance composite rotor blades:

- No corrosion
- High resistance to damage

Articulated Spheriflex®-type rotor head:

- Ease of maintenance
- No lubrication

TURBOMECA Arrius 2F engine:

- Powerful
- Simple: 2 modules
- Proven design
- Low fuel consumption



Characteristics

The EC120 B's outstanding characteristics are the cumulative result of 50 years of experience in designing, manufacturing and supporting light single-engine helicopters.

To date, the 660 EC120 B helicopters delivered worldwide in 55 countries have completed nearly 1,000,000 flight hours.

CAPACITY

Passenger transportation	1 pilot + 4 passengers	
WEIGHT		
Maximum takeoff weight	1,715 kg	3,781 lb
Maximum operational weight in external load configuration	1,800 kg	3,968 lb
Useful load, standard configuration	718 kg	1,583 lb
Maximum cargo-sling load	700 kg	1,543 lb
Standard fuel tank	321 kg	707 lb

ENGINE 1 Turboshaft TURBOMECA ARRIUS 2F

Takeoff power	376 kW	504 shp

PERFORMANCE at MTOW, ISA, SL

Maximum speed (Vne)	278 km/h	150 kts
Rate of climb	5.84 m/s	1,150 ft/min
Service ceiling	5,182 m	17,000 ft
Hover ceiling OGE at takeoff power	2,316 m	7,600 ft
Maximum range without reserve at recommended cruise speed	710 km	383 NM
Endurance without reserve at 65kts		4h19

OPERATION LIMITATIONS

Maximum operating altitude	6,096 m	20,000 ft
Minimum temperature	- 40°C	- 40°F
Maximum temperature	ISA + 35°C(+ 95°F) limited to + 50°(+ 122°F)	

The data set forth in this document is for information purposes only, and may vary with conditions. For performance data and operating limitations, reference see approved flight manual ar d all appropriate documents. December 2010









Contacts

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