



EC120 B

Technology

*Next Generation
Technology...
Available Today*

The EC120 B offers the most advanced technological solutions available to help the pilot fly safer, more easily and more cost-efficiently. This new generation helicopter is the only single engine helicopter to embody so many new advanced technologies all in one package. While its technology is advanced, the EC120 B is designed for simplicity and ease of maintenance. And most of all, the EC 120B has been designed taking into account the customers' expectations.



New generation of Fenestron® tail rotor:

- low noise level
- high ground clearance
- no servo controls (low costs)
- Safety on ground and in flight



Ergonomic and state-of-the-art instrument panel including the VEMD® for the management and control of the main vehicle and engine parameters.



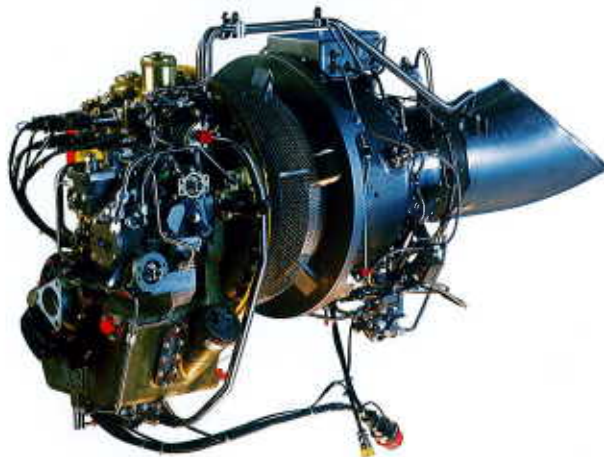
Energy absorbing seats

High performance composite rotor blades

- no corrosion
- high resistance to damage
- high life limit

Articulated Spheriflex®-type rotor head

- ease of maintenance
- no lubrication
- no bearing
- high reliability



New generation of TURBOMECA Arrius 2F engine.

- powerful: 504 shp (376 kW)
- simple: 2 modules
- proven design
- low fuel consumption
- crashworthy fuel system.





EC120 _B

Technical data

The EC120 B's high endurance and extended range give the aircraft an extensive hovering capability, making it the ideal platform for surveillance operations. These capabilities also make it the right choice for a variety of passenger transport missions.

The integrated state-of-the-art technologies of the EC120 B provide enhanced safety and reduced pilot workload.

These outstanding characteristics are the result of 50 years of experience in manufacturing and supporting light single engine helicopters.



CAPACITY

Passenger transport	1 pilot + 4 passengers
	2 pilots + 3 passengers
Casualty evacuation	1 pilot + 1 stretcher patient + 1 doctor

WEIGHTS

Maximum take-off weight	1,715 kg	3,781 lb
Maximum take-off weight with external load	1,800 kg	3,968 lb
Empty weight, standard configuration	965 kg	2,127 lb
Useful load, standard configuration	750 kg	1,653 lb
Maximum cargo-swing load	700 kg	1,543 lb
Standard fuel capacity	321 kg	708 lb

POWER PLANT

1 TURBOMECA ARRIUS 2F turbine engine

Take-off power	376 kW	504 shp
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PERFORMANCE AT MAX. GROSS WEIGHT - (ISA CONDITION)

Maximum speed (Vne)	278 km/hr	150 kts
Fast cruise speed (at MCP)	223 km/hr	120 kts
Recommended cruise speed	204 km/hr	110 kts
Rate of climb at SL	5.84 m/sec	1,150 ft/min
Service ceiling	5,182 m	17,000 ft
Hover ceiling OGE at take-off power	2,316 m	7,600 ft
Maximum range without reserve at RCS	710 km	383 nm
Endurance without reserve at 100 km/hr-54 kts	4h20 mn	

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°C (+ 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 and all appropriate documents. July 2004





EC120^B

Utility Mission

*Unparalleled
Mission Flexibility*

The versatility of the EC120 B allows for unparalleled mission adaptability.

The helicopter can perform a wide range of operations from sling load to power line inspection or electronic news gathering.

The rapid change configuration capability and vast amount of optional equipment allows the EC120B to provide operators with maximum mission flexibility.



Power line inspections

Unparalleled Mission Flexibility

This helicopter offers state-of-the-art integrated technology which helps the pilot to focus only on the mission at hand. The exceptional visibility, great maneuverability and stability coupled with the VEMD® considerably reduce the workload, while enhancing safety.

Optional equipment

- Cargo sling
- Electrical external mirror,
- Windshield wipers,
- Skis,
- Wire strike protection system,
- Sand prevention system.

The wide cabin along the large baggage compartment (3 m³ / 103 cu.ft) can accommodate a variety of cargo and bulky loads. The flat floor and unobstructed cabin make loading and unloading effortless. The easy and rapid maintenance, and above all the low fuel consumption, give the EC120 B the lowest operating costs in its class.

Mission Capabilities

- Sling load operations
- Power line inspections
- News Gathering
- Freight transport
- Crop spraying, liming
- Herding
- Environmental missions



Surveillance over national parks or nature reserves





EC120 _B

Training Mission

*Simplicity Without
Compromise*

The EC120 B is the perfect helicopter to perform both initial and recurrent pilot training thanks to its maneuverability, high visibility and high availability.

The EC120 B is easy to fly and simple to maintain. It is equipped with the most advanced technologies available to help instructors to perform training missions in optimal safety conditions.



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 sophisticated VEMD® monitoring system ensures that the pilot only has to focus on his primary task.

The modern instrumentation is ideal for pilots who are training on the EC120 B, but will also be flying other helicopters with similar ergonomic design. This will help the trainee to be highly familiar with other high-tech helicopters. And because the EC120 B's simple maintenance and low fuel consumption mean lower operating costs, overall training costs are lower as well.

Easy handling for trainees

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

