



AS350 B2



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AS350 B2

The Reference in Single-Engine Helicopters

The multipurpose, single-engine AS350 B2, powered by a 732 shp (546 kW) Turbomeca Arriel 1D1 engine, has an outstanding proven track record. Its flexibility and low acquisition cost have made it a very sought-after helicopter capable of performing a wide range of missions, including passenger transportation, aerial work, training, observation, fire fighting, and law enforcement, among others. With its spacious and comfortable cabin accommodating one pilot plus up to 6 passengers, the AS350 B2 is especially appreciated for its passenger transportation capabilities for VIP missions, tourist flights, and public service tasks. Furthermore, its wide cabin and panoramic view ensures optimum visibility for both passengers and crew.

The AS350 B2 is an excellent utility helicopter able to carry external load of more than 1 ton (2,200 lbs). Thanks to its high useful load, it is well suited for all missions requiring various types of equipment, especially for police, news gathering, medical transportation and utility operations. And with a very short reconfiguration time (less than one hour), this single-engine aircraft is able to complete various missions quickly and efficiently.



Technology

Ahead of its Time

The AS350 B2 is equipped with an innovative, advanced, corrosion-free Starflex rotor and main and tail rotor blades which are made entirely of composite materials. In addition, these composite components are very reliable: The main rotor blades, for example, have a service life of up to 20,000 hours.

The cabin is made of thermoplastic double fuselage and an extremely resistant light alloy frame.

The Turbomeca Arriel 1D1 turbine combines high performance, low fuel consumption and very easy maintenance. The use of modular elements makes it possible to replace mechanical sub-units directly in the field.

The AS350 B2 shares common cockpit features with other members of the Ecureuil family: It has, for example, a new control panel console technology also used by the EC130 B4, with new circuit breakers replacing former fuses, as well as a new instrument panel identical to that of the AS350 B3, including a Vehicle and Engine Multifunction Display (VEMD) and integrated instrumentation, which enables pilots to see at a glance the main vehicle and engine parameters on a dual LCD screen.



Customized configuration

Mission Capabilities

From the most arduous working conditions to refined comfort, the AS350 B2 offers a multitude of configurations to cover all missions.

The Ecureuil has a surprisingly roomy, unobstructed cabin with a flat floor, which allows it to carry seven persons or up to three cubic meters of freight. Three baggage compartments offer an additional cubic meter of space. Large access doors facilitate the loading and unloading of cumbersome objects.

Thanks to its extremely low vibration levels, the Ecureuil is an excellent choice for aerial photography, cinema or television missions. Offering multiple cabin configurations and interior finish options, the Ecureuil can be easily adapted to any type of mission. When refinement, comfort and aesthetics are determining factors, the Ecureuil can be fitted with top-quality amenities and additional soundproofing.



Electrical hoist

Some of the wide-ranging missions performed by the AS350 B2:

- Sling load operations
- Fire fighting
- Power line inspection
- News gathering
- Rescue and hoisting
- Law enforcement tasks
- Passenger or corporate transportation.

The Ecureuil family, which clocks more than one million flight hours every year, has already achieved more than 21 million flight hours! A large array of optional equipment is available: electrical hoist, cargo swing system, cargo sling with external mirrors, wire strike protection, floatation gear and halers



Cargo swing system



Cargo sling with external mirrors



Wire strike protection, floatation gear and halers

protection, floatation gear, halers, sand prevention filters, search light, roping systems...and the list goes on.



Support and Services



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- Customer Service Centers in Europe, Asia and the USA offering around-the-clock worldwide customer assistance, seven days a week, 365 days a year
- A world of services to meet customers' needs in terms of technical support, component repair and overhaul services, parts and spares support, technical publications and training—at our facilities, or yours.





Capacity

Passenger transportation	1 pilot + 5 passengers (standard version) 1 pilot + 4 or 5 passengers (comfort version) 1 pilot + 6 passengers (high density version)
Casualty evacuation	1 pilot + 2 doctors + 1 stretcher
Cargo	1 pilot + 3 m3 (105.9 ft3) in the cabin

Weights

Maximum takeoff weight	2,250 kg	4,960 lbs
Maximum takeoff weight with external load	2,500 kg	5,512 lbs
Empty weight (standard configuration)	1,220 kg	2,690 lbs
Useful load (standard configuration)	1,030 kg	2,270 lbs
Maximum cargo swing load	1,160 kg	2,557 lbs
Standard fuel capacity	426 kg	939 lbs

Power plant

1 Turbomeca Arriel 1D1 turbine engine

Takeoff power	546 kW	732 shp
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Performance at Maximum Gross Weight at sea level, ISA and zero wind condition

Maximum speed (Vne)	287 km/hr	155 kts
Fast cruise speed (at MCP)	246 km/hr	133 kts
Recommended cruise speed	226 km/hr	122 kts
Rate of climb at SL	8.5 m/sec	1,675 ft/min
Service ceiling	4,600 m	15,100 ft
Hover ceiling at takeoff power ISA-IGE	3,000 m	9,850 ft
Maximum range without reserve at recommended cruise speed (RCS)	666 km	360 NM
Endurance without reserve at 100 km/hr - 54 kts	4 hrs, 24 min	

Operation Limitations

Maximum altitude (PA)	6,100 m	20,000 ft
Minimum temperature	- 40° C	- 40° F
Maximum temperature	ISA + 35° C, limited to + 50° C / ISA + 95° F, limited to + 122° F	




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