



AS350 B3e





Making the best even better!

The high-performance member of the Ecureuil family, the AS350 B3 outclasses all other single engine helicopters for performance, versatility, safety and competitive acquisition and maintenance costs. It excels in hot conditions and very high altitudes, and broke records when a standard production aircraft landed on the top of Mount Everest in 2005 (altitude: 29,029 ft / 8,848 m).

And the best keeps getting even better - Eurocopter is taking this aircraft to a whole new level with the enhanced AS350 B3e.

The AS350 B3e is powered with a new Turbomeca Arriel 2D engine including a new generation dual digital engine control system (FADEC), backed up with one independent control system for automatic start-up sequences and care-free engine handling.

This modern engine has an increased reliability and decreased maintenance costs and is fitted with an Engine Data Recorder.

The AS350 B3e cockpit, with its dual LCD-screen Vehicle and Engine Multifunction Display (VEMD), allows the pilot to check at a glance the main vehicle and engine parameters - thus reducing his workload and enhancing safety.

The AS350 B3e offers a new elegant cabin, increasing passenger comfort.

Thanks to its versatile flat floored cabin, the AS350 B3e can be quickly and easily reconfigured for all types of missions, from utility and heavy load transportation to medical evacuation, Search and Rescue, law enforcement and passenger transportation.

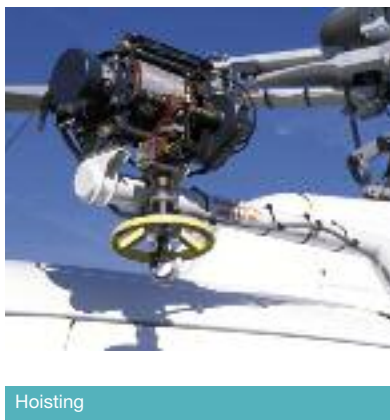
Utility

The powerful AS350 B3e is reliable, comfortable, safe and cost-effective. The AS350 B3e can be configured, and easily reconfigured, with a long list of certified optional equipment for whatever utility mission you may have. With its lifting power capacity, endurance and manoeuvrability, the AS350 B3e is always up for the most rigorous hot and high missions and sling work (external load capability is 3,086 lb / 1,400 kg).





Fire fighting



Hoisting



Sling load operations

Ready for Any mission

The new powerful Arriel 2D engine offers state-of-the-art technology for outstanding reliability, simplified maintenance and low operating costs.

Mission Capabilities :

- Sling load operations
- Fire fighting
- Hoisting
- Power line inspection
- Crop spraying
- News gathering
- Parachute dropping



Electrical external mirror



Swing load



Broadcasting

A wide range of optional equipment:

Second battery kit, sand prevention filter, sliding doors, tail rotor arch, cabin floor window, etc.

Law Enforcement

The AS350 B3e is well adapted to multi-role law enforcement missions: surveillance, command and control, search and rescue, SWAT unit transportation or hoisting of canine units, as well as flying border patrol in hot and high conditions.

The AS350 B3e offers excellent visibility, a pilot-friendly ergonomic cockpit and exceptional endurance and speed.

The unobstructed flat floor cabin concept and low vibration level allow for the installation of all necessary equipment, including fully integrated law enforcement instrument panels, infrared cameras and tactical consoles.





Air Support

Eyes in the Sky

The AS350 B3e features the latest technologies and can also be equipped with a wide range of certified optional law enforcement equipment.

Police forces in some 30 regions across the world already operate aircraft from the AS350 B3 family. The AS350 B3e is capable of high-speed pursuits and offers excellent manoeuvrability. Thanks to its FADEC-equipped engine, starting the AS350 B3e is automatic and very simple. Its modular design makes it easy to maintain, increasing its availability rate.

The AS350 B3e offers day and night VFR flight capability and can be customised with NVG-compatible lighting sources and instruments.

A wide range of optional equipment and capabilities are available:

Infrared thermal imaging system (both modes can be recorded or transmitted via microwave downlink), moving map with zoom and GPS, tracker for following or locating stolen property or vehicles, wire-strike protection system, gyro-stabilised binoculars, simultaneous 4-channel police radio, pilot & co-pilot windshield wiper, second battery kit, air conditioning system, sand prevention filter, tail rotor arch, electrical external mirror, emergency floatation system, cargo hook, hoist, etc.



Search Light



FLIR



Emergency Medical Service kit



Integrated Hangers



Breeze Electrical Hoist



Surveillance



Sliding doors

Passenger Transportation

The AS350 B3e provides passengers with the highest level of comfort and elegance in its roomy, air-conditioned, redesigned cabin.

The pilot's workload is considerably reduced thanks to the aircraft's ergonomic cockpit featuring dual LCD-screen Vehicle and Engine Multifunction Display (VEMD).

The AS350 B3e offers a low vibration level and great comfort for passengers. With its easy cabin access through two large sliding doors, forward-facing seats and large baggage compartments, the AS350 B3e is the ultimate single engine helicopter for the most demanding business aviation customers all over the world.





Stylence

New Interior Design

Thanks to its wide and unobstructed cabin, high cruising speed, range and payload, the AS350 B3e can carry more passengers on more round-trips per day than any other helicopter in its class.

The interior and its seats have been redesigned to provide the most comfortable and stylish accommodations for your flight.

Various seating layouts

- Standard configuration: 5 passengers + 1 pilot.
- High density configuration: 6 passengers + 1 pilot.
- In its STYLENCE® configuration (4 passengers + 1 pilot), the AS350 B3e offers all the amenities of a small executive jet with the added value of being able to land everywhere. The new STYLENCE® package offers a refined cabin finishing and comes in 6 different styles (6 colors: Silk, Terra, Flame, Cobalt, Shadow and Titanium).



Support and Services

At Eurocopter, 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 27 subsidiaries and participations, 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 Centres 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 Eurocopter facilities worldwide or at your own facilities.





Easy Maintenance

Daily inspections and final flight inspections made by the pilot quickly and easily.

Comprehensive Basic Support

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

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

Additional Services

Eurocopter 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 AS350 B3e operators, Eurocopter offers tailor-made services to match your operational requirements:

- Guaranteed Turn-Around-Times will enable you to better schedule your maintenance
- Standard exchange services to support your aircraft availability and inventory optimization.

Additional or Specific

Training

From advanced training tools to Full Flight Simulators:

- CAI (Computer Aided Instruction)
 - A teaching tool fully FCL2 (pilots) and Part 147 (airframe mechanics T1-Avionics T2) compliant, specially designed for instructors.
 - Combined with classroom courses, the CAI will help reduce training time and significantly improve the trainees' skills.
- CBT (Computer Based Training)
 - Self-training tool used on site and at your own schedule.

Mission-oriented training programs based on specific operations are also available, including:

- Safety and Survival training: How to assure a safe and efficient flight, in accordance with Appendix 1 paragraph OPS 3.965.
- Survival and Rescue training: How to survive and be located and rescued during harsh winter conditions.

Technology

The AS350 B3e cockpit is fitted with a dual LCD-screen Vehicle and Engine Multifunction Display (VEMD), allowing the pilot to check at one glance the main vehicle and engine parameters - thus reducing his workload and enhancing safety.

The use of composite material for the airframe, rotors and main rotor head gives the AS350 B3e the best protection against corrosion and, consequently, reduces your maintenance costs.



A State-of-the-art Workhorse

New Turbomeca Arriel 2D engine: High performance, Reliable and Low Maintenance Cost

- The legendary reliability of the Arriel: the Arriel family has over 32 million flight hours of experience
- Modular design
- New dual-channel Full Authority Digital Engine Control (FADEC) generation is backed-up with one independent control system to enhance safety and decrease the pilot's workload. It also ensures engine monitoring, providing it with the correct fuel, air and ignition ratios required for optimum performance with minimum fuel expenditure to suit any given exterior condition.
- Engine Data Recorder: it manages cycle countings and damage tracking for more anticipated maintenance.
- Time Between Overhaul (TBO): Engine TBO and maintenance inspection intervals are extended, reducing operating costs.

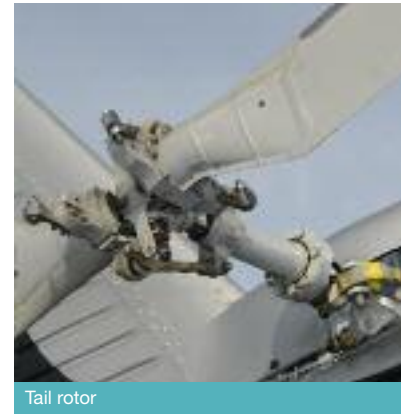


Vehicle and Engine Multifunction Display

The VEMD is a modern, fully duplex equipment for the management and control of the main vehicle and engine parameters. It provides several display modes: operational (mission and performance calculation, automatic engine power check) and maintenance mode (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 at a glance and concentrate solely on his mission.

Hydraulic system and Flight Controls improvement

- enhanced reliability
- decreased maintenance.



Characteristics

Leader in its class

The powerful, high-performance AS350 B3e is designed to carry out the most demanding missions in the most extreme weather and geographical conditions. Its exceptional lifting capability, high endurance, extended range and fast cruise speed make the AS350 B3e the leader in its class.

Another world record:

An AS350 B3 climbed to 3,000 meters / 9,900 ft in 2 minutes 21 seconds and made a world record landing on Mount Everest.



The value of experience

The AS350 B3e is a member of Eurocopter's rugged and proven Ecureuil family. Some 4,900 Ecureuils have been delivered in 98 countries for some 1,600 operators. These aircraft have cumulated more than 22 million hours.

More than 900 AS350 B3 series are currently in-service worldwide, and are mainly used for high performance missions in "high and hot" conditions.

Passenger transportation			
Configuration	Pilot		Passenger
High density version	1		6
Standard version	1		5
Comfort version	1		4 / 5
Air medical transportation			
Configuration	Pilot	Doctor	Stretcher
Casualty evacuation	1	2	1
Load transportation			
Configuration	Pilot		Load in cabin
Cargo carrying	1		105.9 ft ³ (3m ³)
Weights			
Maximum takeoff weight	4,960 lb / 2,250 kg		
With the optional " kit to increase Internal Gross Weight"	5,225 lb / 2,370 kg		
Maximum takeoff weight with external load	6,172 lb / 2,800 kg		
Maximum cargo-swing load	3,086 lb / 1,400 kg		
Engine			
1 TURBOMECA ARIEL 2D turbine engine			
Takeoff power on AS350 B3e	847 shp / 632 kW		
Performance at Max. GROSS WEIGHT, ISA, SL			
Maximum speed (VNE)	155 kts / 287 km per hr		
Fast cruise speed	140 kts / 345 nm		
Range with standard tank	127 kts / 638 km		
Max Endurance	4 hrs 23 min		
Rate of climb	1,959 ft per min / 10 m per sec		
Service ceiling	16,550 ft / 5,044 m		
Hover ceiling IGE	13,200 ft / 4,023 m		
Hover ceiling OGE	11,100 ft / 3,383 m		
Operation Limitations			
Maximum altitude (PA)	23,000 ft / 7,010 m		
Minimum temperature	- 40°C / -40°F		
Maximum temperature	ISA + 35°C / 95°F, limited to + 50°C / 122°F		

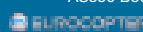
The data set forth in this document is for informational purposes only, and may vary with conditions. For performance data and operating limitations, reference see approved flight manual and all related documentation.



thinking without limits



AS350 B3e-02.11-E. Designed by Eurocopter - Photos: Patrick Penna - Jérôme Deulin - Mark Mansfield - Eric Trésamini - Turbomeca.

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