

Civil

AS350 B3e

 **AIRBUS**
HELICOPTERS

MAKING THE BEST EVEN BETTER!



The AS350® B3e is the high-performance version of the single engine Ecureuil® family. It demonstrated its tremendous capabilities while breaking the World Record for the highest altitude landing and takeoff: Mount Everest (29,029 ft / 8,848 m).

The AS350 B3e outclasses all other single engine helicopters for performance, versatility, maintenance costs, safety and low acquisition. It excels in high & hot and extreme environments.

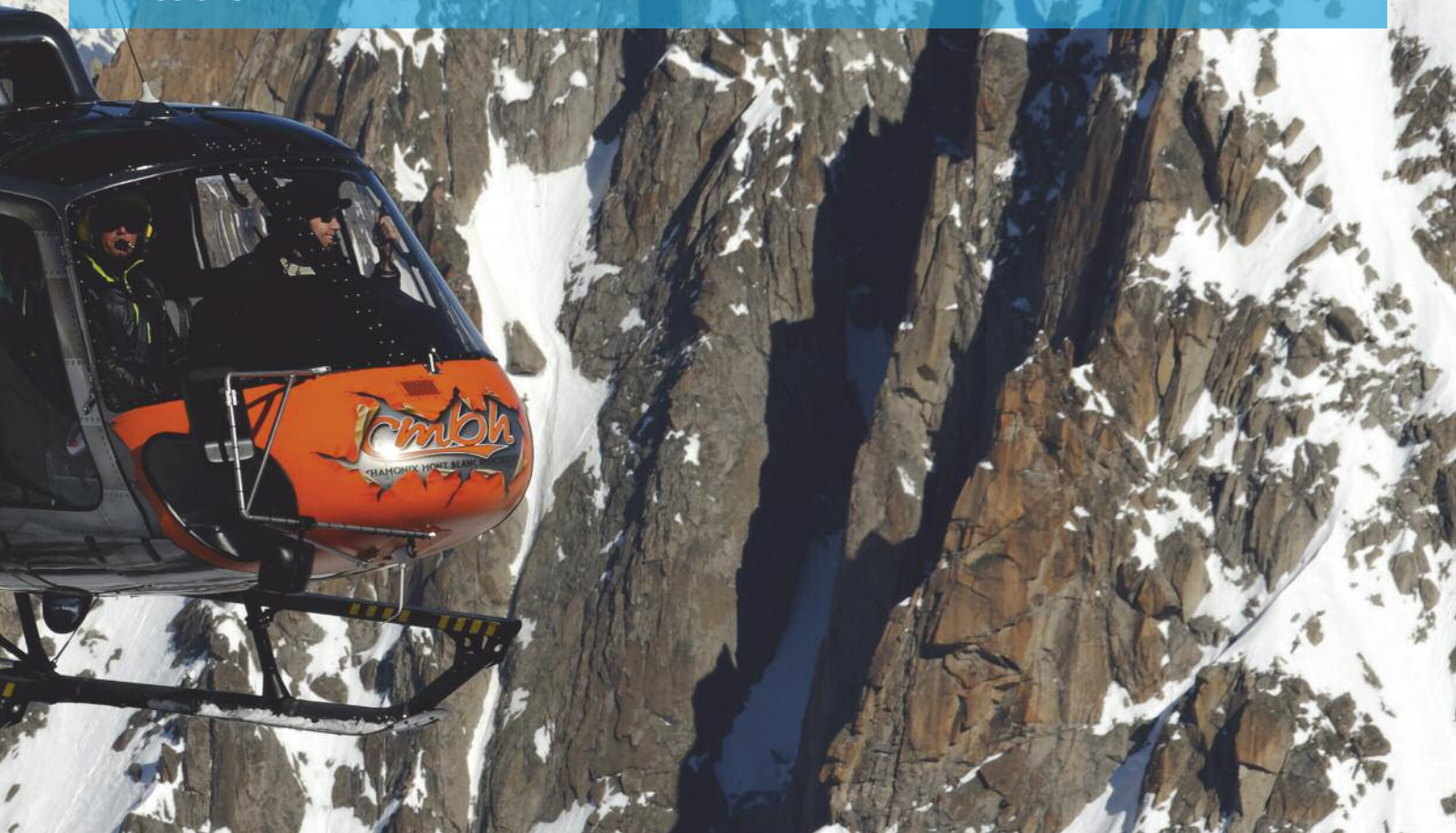
The AS350 B3e is equipped with a Turbomeca Arriel 2D engine including an upgraded triple engine control: dual channel FADEC (Full Authority Digital Engine Control) unit plus a third independent & automatic back up channel for automatic start-up sequences and care-free engine handling.

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

The AS350 B3e glass cockpit includes 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, such as aerial work, firefighting, law enforcement, Search And Rescue or passenger transport. The AS350 B3e offers a new interior design-STYLENCE®- for increasing comfort in passenger transport missions.



Aerial Work

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 aerial work mission you may have. With its lifting power capacity, endurance and manoeuvrability, the AS350 B3e is always up for the most rigorous high and hot missions and sling work (cargo-swing load capacity: 1,400kg / 3,086 lb).





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.

A wide range of optional equipment

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



Hoisting



Air crane operations



Fire fighting

Mission Capabilities:

- Air crane operations
- Fire fighting
- Hoisting
- Power line inspection
- Crop spraying
- News gathering
- Parachute dropping
- Geological survey



Swing load



Electrical external mirror



Broadcasting

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 high and hot 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



Search Light



FLIR

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.



Emergency Medical Service kit



Integrated Hailers



Sliding doors

Passenger Transportation

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





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).



Carbon Leather Carpet



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 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 Airbus Helicopters facilities worldwide or at your own facilities.





Simulator

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 Airbus Helicopters 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

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 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:

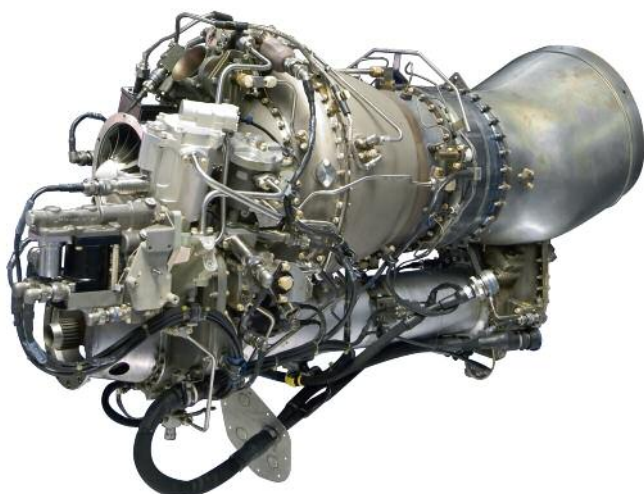
- Safety training:
 - How to assure a safe and efficient flight, in accordance with Appendix 1 paragraph OPS 3.965.
- Survival and Rescue training:
 - How to survive and be located and rescued during harsh winter conditions.

Technology

The AS350 B3e cockpit is fitted with a glass cockpit includes Vehicle and Engine Multifunction Display (VEMD), and new dual-channel Full Authority Digital Engine Control (FADEC). 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 37 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 cancels pilots' training for manual engine regulation. 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 for more anticipated maintenance.
- Time Between Overhaul (TBO): Engine TBO and maintenance inspection intervals 4,000h (extension target value: 6,000h).



VEMD display on ground

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, including First Limit Indicator (FLI) and concentrate solely on his mission.



VEMD display in flight

Vision 1000

Low cost image & cockpit recorder + basic HFDM

Leader in its class

Characteristics

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.

CAPACITY

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)

WEIGHT

Maximum takeoff weight	2,250 kg	4,960 lb
With the optional " kit to increase Internal Gross Weight"	2,370 kg	5,225 lb
Maximum takeoff weight with external load	2,800 kg	6,172 lb
Maximum cargo-swing load	1,400 kg	3,086 lb

ENGINE

1 TURBOMECA ARRIEL 2D turboshaft engine		
Takeoff power (at SL-ISA)	632 kW	847 shp

PERFORMANCE AT MAX. GROSS WEIGHT, ISA, SL

Maximum speed (VNE)	287 km/h	155 kts
Fast cruise speed	258 km/h	140 kts
Range with standard tank	651 km	351 NM
Max Endurance without reserve at 100 km/h - 54 kts	4 h 28 min	
Rate of climb	10 m/s	1,959 ft/min
Service ceiling	5,044 m	16,550 ft
Hover ceiling IGE	4,023 m	13,200 ft
Hover ceiling OGE	3,383 m	11,100 ft

OPERATION LIMITATIONS

Maximum altitude (PA)	7,010 m	23,000 ft
Minimum temperature	-40°C	-40°F
Maximum temperature	ISA + 35°C / 95°F, limited to + 50°C / 122°F	

The value of experience

The AS350 B3e is a member of Airbus Helicopters' rugged and proven Ecureuil Single family. Some 4,950 Ecureuils Single have been delivered in 110 countries for some 1,600 operators. These aircraft have cumulated more than 23 million hours.

More than 1,400 AS350 B3 series are currently in-service worldwide, and are mainly used for high performance missions in "high and hot" conditions.





Contacts

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