

Civil

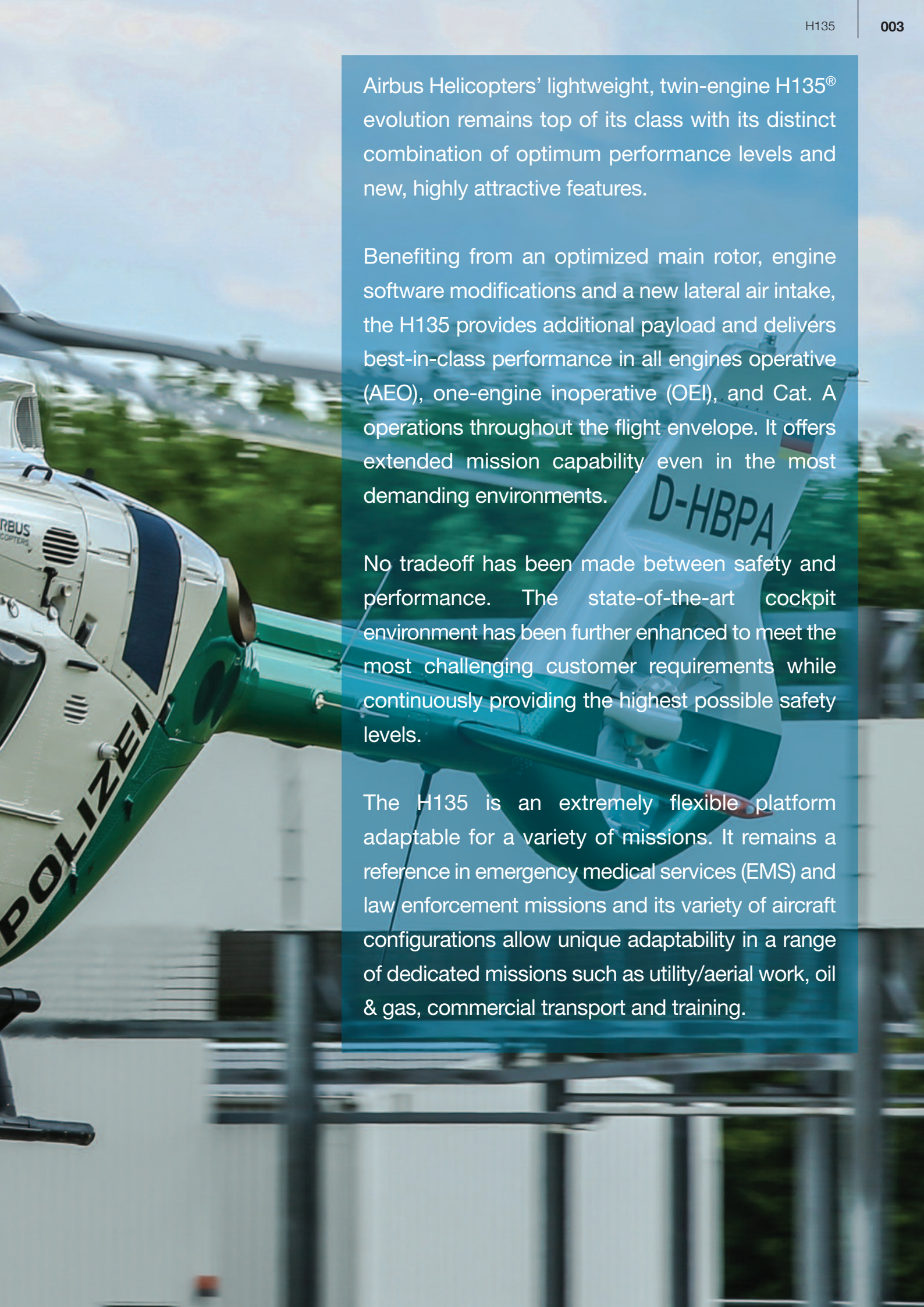
H135<sup>®</sup>



A VERSATILE PLATFORM,  
PARTICULARLY TAILORED  
FOR STRINGENT  
HIGH & HOT  
ENVIRONMENTS







Airbus Helicopters' lightweight, twin-engine H135® evolution remains top of its class with its distinct combination of optimum performance levels and new, highly attractive features.

Benefiting from an optimized main rotor, engine software modifications and a new lateral air intake, the H135 provides additional payload and delivers best-in-class performance in all engines operative (AEO), one-engine inoperative (OEI), and Cat. A operations throughout the flight envelope. It offers extended mission capability even in the most demanding environments.

No tradeoff has been made between safety and performance. The state-of-the-art cockpit environment has been further enhanced to meet the most challenging customer requirements while continuously providing the highest possible safety levels.

The H135 is an extremely flexible platform adaptable for a variety of missions. It remains a reference in emergency medical services (EMS) and law enforcement missions and its variety of aircraft configurations allow unique adaptability in a range of dedicated missions such as utility/aerial work, oil & gas, commercial transport and training.



# The reference helicopter for EMS, perfectly designed for disaster management and SAR missions

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The H135 brings added confidence during rapid deployment of personnel, offering high capability and versatility to meet time-critical operational requirements. Its design incorporates a lightweight cockpit layout, compact dimensions and remarkable performance with excellent outside visibility as well as a modular, flexible cabin arrangement.

Quick and easy patient loading is ensured via the large sliding doors on either side or the rear clamshell doors – even when rotors are running. During winch operations, patients can be easily transferred into the hovering helicopter. The H135's external sound signature – far below the strictest regulatory specifications – allows operations in close approach to hospitals, often situated in urban areas.



## Primary EMS missions

Wherever the injured need urgent help, the H135 can land. Its high skid landing gear and compact design allow touchdowns in very confined areas or on unprepared terrain. The helicopter can make pinpoint landings close to the patient with optimum safety as a result of its out-of-reach main rotor and protected Fenestron® tail rotor.

The H135 offers ample room for up to two crew members, three medical seats and one stretcher. A second stretcher can be installed within seconds.



Rear access



Landing in confined areas



## Secondary EMS Missions

The H135 was designed in close cooperation with medical professionals and rescue experts. It offers:

- A modular design adaptable to different users' needs
- A cabin suited for the installation of medical devices and equipment
- In-flight resuscitation (CPR) and endotracheal intubation capabilities
- A cabin-accessible baggage compartment
- A new hygienic, easy-to-clean floor (option)
- Rear or side stretcher loading
- An Anti-Resonance Isolation System (ARIS), ensuring low vibration levels and a smooth ride.

Optional mission equipment such as the autopilot, digital moving map and weather radar support the pilot during IFR flights and enhance overall flight safety. "Flying intensive care stations" and incubators are also available on a modular basis.



## Disaster management and SAR

The H135 has excellent slope landing capabilities and can perform rapid interventions in high-risk situations, adverse weather, catastrophes and disasters, as well as emergencies such as floods, earthquakes, landslides and heavy snowfalls.



# Law Enforcement Missions

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Whatever the operation requires, the H135 is up to the challenge. With its compact size and shrouded tail rotor, the H135 can land in confined areas with little disturbance. It's wide, unobstructed cabin offers increased visibility for effective day and night observation missions. The helicopter's flexibility, low external sound signature, reduced maintenance and operational costs and a higher availability rate make it a perfect platform for daily police operations.





External loudspeakers



Surveillance



SWAT team transportation



EOS



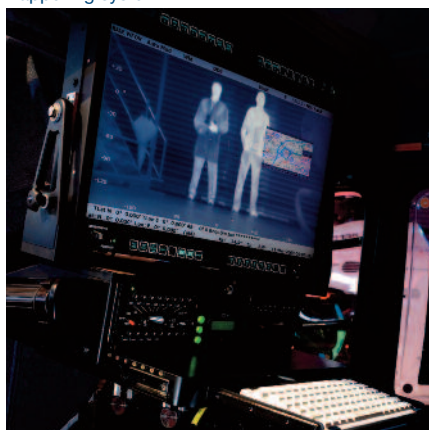
Rappelling system



Search light with laserpointer



NVG capabilities



Operator's console



Hoist at the left or right side

## A unique efficiency multiplier

**As a true workhorse, the H135 is perfectly suited to the following law enforcement activities:**

- Observation and airborne surveillance
- Command, control and communications with down link capabilities
- Pursuit and criminal chasing
- Border patrol
- Anti-smuggling and anti-drug
- Counter terrorism
- Police escort
- Rapid insertion / extraction of special equipment and units

With its variety of available equipment, the H135 is well-tailored for the requirements of police forces around the world. The cockpit and cabin are night vision goggle (NVG) compatible, and can be configured with a state-of-the-art avionics glass cockpit integrating a dual GTN 750 GPS with touch screen capabilities (option). This considerably reduces pilot workload, allowing them to focus on performing the mission safely. The helicopter's unobstructed cabin, with its flat floor and multipurpose rails, allows for quick and easy conversions to suit mission requirements. A low sound signature reduces the H135's impact in urban operations and furthers its effectiveness in security missions.



# Oil and Gas missions

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The H135's excellent outside visibility, exceptional maneuverability, long-range capability, twin-engine OEI and Cat A performance, high safety level and easy cabin access suit this helicopter for demanding oil & gas operations. The rotorcraft's simple design enables fast and easy maintenance to ensure optimal dispatch availability and reduced operating costs.







### Safety

The H135's proven technology coupled with the full provisions offered provides the highest possible safety levels for demanding offshore missions - even in adverse weather conditions:

- Dual Garmin GTN750 with a newly designed Human Machine Interface (HMI) - option
- Light Aircraft Recording System – an improved flight analysis tool
- Weather & search radar
- Emergency floats
- Automatic external life raft compatible with emergency floats – EASA PART CAT
- New class D certified external hoist
- High energy-absorbing fuselage and seats as well as crash-resistant fuel cells

The H135 delivers excellent one-engine inoperative (OEI) hover performance, which ensures optimal safety in case of an engine failure.

### Comfort in mind

The H135's spacious cabin offers outstanding visibility to both the pilot and its passengers. The latter will appreciate the ample legroom and low in-flight vibration levels.

In the standard configuration, the aircraft can accommodate up to six passengers with one or two pilots.



# Utility/aerial work missions

With its two powerful Cat. A, Faec controlled engines, a cabin with sliding doors, high external cargo hook and small ground footprint, operators can employ the H135 for numerous utility/aerial work applications.





# Enhanced mission capability

## H135 saving weight with new Multi-Function Floor (MFF)

A new MFF is available as an option and is already HEMS-compatible, thus removing the requirement to have a specific HEMS floor laid on top of the aircraft floor. The gain in payload can be up to an extra 40kg as a result.



## The H135 now has Helionix

The H135 now has Helionix. H135s is able to fly fully-coupled LPV approaches, bringing extra safety and noise reduction to hospital operations, with the steepest fully automatic LPV glide slope in the business: 10°.

Synthetic Vision System (SVS) has been integrated, enhancing crew situational awareness and safety. The DMAP now has the Helionix Moving Map Display.

Further avionics enhancements include :

- Fully integrated HUMS
- H-TAWS
- Wireless connectivity via Garmin Connex
- ADS-B OUT
- SBAS RNP Approaches (WAAS, EGNOS,..) with improved performance, superior to B429 & AW109SP.



## The new H135 has increased performance

The latest evolution of H135 can carry more payloads over longer distances than any twin engine in its class, and offers excellent CAT A and one-engine inoperative (OEI) performance, even at high altitudes and in hot climates.

## H135 now has CVFDR thus is compliant with 2016 regulations

H135 is now available with the latest Cockpit Voice Flight Data Recorder Systems compliant with ED112 Standard, which is obligatory from January 2016 for new aircraft.

## Perfectly suited to a number of different utility operations:

- Sling load operation
- Hoisting
- Cargo transportation
- Power line inspections
- Wind turbine maintenance and inspections
- Harbor pilot transportation
- Fire fighting

## Affordable

The H135 has the lowest direct operating cost in its class, resulting in one of the lowest cost twin-engine helicopters to operate!

## Safety

- The shrouded Fenestron® tail rotor ensures low vulnerability to environmental hazards when maneuvering close to terrain and increases safety for ground personnel
- The H135's high set main rotor only requires on-condition maintenance and provides agility and very high clearance for enhanced safety on the ground
- Increased Cat A and OEI performance.



# Commercial aviation transport (CAT)

H135 passengers enjoy an exceptionally fast and smooth ride. The high set main rotor and the shrouded tail rotor enhance in-flight and on-ground safety. The large side sliding doors enable passengers to easily board and disembark. In addition, the helicopter's rear clamshell doors facilitate simple luggage storage. The H135 offers excellent external visibility during flight — passengers can sit back and soak up the extraordinary view. With its low sound and vibration levels, the atmosphere is both pleasant and restful for passengers and crew.





## Designed for those who require the best



### **Stylence®**

The Stylence configuration includes a 5-seat Stylence solution. The elegant interior design with stylish seats and cabinets creates an exclusive ambience. The top-quality leather coupled with the high-tech materials such as carbon fiber and aluminum alloy ensure a lightweight and modern appearance.

The new design includes highly effective soundproofing, automatically-controlled air-conditioning system and provides further reductions in vibration level maximizing comfort for the passenger.

### **Corporate version upon request**

The H135 Corporate configuration offers comfortable, classic surroundings for optimum working conditions. Genuine

leather and real wood combined with highly accurate production methods ensure a lightweight interior that maximizes the helicopter's range. This configuration can comfortably accommodate up to six passengers plus a pilot, providing ample leg room space. An optional version accommodates seven passengers and a pilot.

# Training missions

The H135 is the perfect helicopter for pilot training due to its maneuverability, high visibility and low vibration levels. In addition, it is equipped with the most advanced technologies available to help instructors perform training missions in optimal safety conditions.

The aircraft is easy to fly, requires minimal maintenance and provides low fuel consumption, meaning low operating and overall training costs. It is a well-suited platform for:

- Basic training
- Advanced training
- Mission training
- Recurrent training

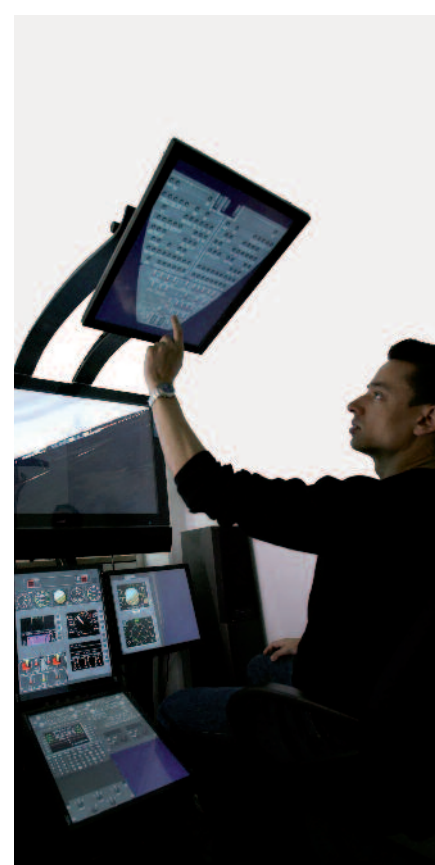






### Designed to make training easy

- State-of-the-art cockpit avionics, with an intuitive Human Machine Interface (HMI) reducing trainees workload allowing them to concentrate on the mission at hand
- Outstanding visibility in the cockpit
- Outstanding pilot handling qualities
- Highest safety standards: High set main rotor and Fenestron® for optimum safety both on-ground and in-flight
- Outstanding level of crashworthiness
- A one-engine inoperative (OEI) training mode allowing realistic single engine emergency procedures whilst maintaining optimum safety for the crew and aircraft
- A Light Aircraft Recording System, combining cockpit imaging and flight data recording to optimize the after flight debriefing while increasing safety
- Cost-effective solution for recurrent training thanks to the wide choice of equipment available providing “multi-role capability”
- Optimized maintenance costs due to an “on condition maintenance” logistics concept



### Training

- In addition to the type rating offered within the Standard Conditions of Sales, Mission-oriented training programs based on specific operations are available such as:
  - Safety and survival module
  - Survival and rescue training
- Training sessions can include the use of advanced training tools and devices up to full flight simulators positioned around the world
- Trainees can also benefit from self-training tools - Computer Based Training (CBT) - to train anywhere, anytime.





# Support and services

At Airbus Helicopters, supporting your helicopter operations with the highest level of excellence is our priority. We deploy all necessary means to answer our customers' needs whether it be ensuring public safety and saving lives, or maximizing flight revenues. Our customer support team keeps you flying with 24/7 availability.



- A worldwide service network of 30 subsidiaries and participations, more than 90 distributors, representatives, training centers, repair and overhaul facilities and maintenance centers around the globe, as well as five logistics hubs.
- A wide array of service solutions to meet all needs in terms of technical support, component repair and overhaul, spare parts support, technical publications and training — at Airbus Helicopters facilities worldwide or at customers' own premises.





### Easy maintenance

The H135 rotorcraft's evolved maintenance plan, and extended schedule inspections leads to a drastic reduction in the helicopter's required overall maintenance.

Operators benefit from:

- Lower maintenance costs
- Higher helicopter availability

### Scheduled maintenance

- Intermediate inspection: extended to 500 hours
- Periodical inspection: extended to 1,000 hours

### Comprehensive basic support

From the moment of purchase, Airbus Helicopters offers:

- Customer service center access
- Initial parts provisioning
- Technical publications
- Technical support
- On-site technical assistance
- Type rating for pilots and technicians
- A comprehensive original equipment manufacturer (OEM) warranty



### Additional services

#### 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 services

A large repair & overhaul network with one single interface to manage maintenance, based on a unique technical know-how and first-class engineering made up of trained and highly qualified technicians.

#### Tailored services solutions

Consulting services such as "collaborative supply chain" solution

- Reactive transportation service capable of fast-paced worldwide delivery
- By-the hour programs to exchange failing parts within a short contractual lead time, improving aircraft availability and optimizing the inventory, while closely monitoring the budget

#### Supply chain optimization

- A single interface for the management of both spare parts and repair & overhaul orders
- An advanced planning system to perform fine-tuned forecasting
- A worldwide distribution network





# Technology

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The H135, featuring Airbus Helicopters' latest technological developments such as an advanced cockpit design, modern avionics, the Fenestron® anti-torque device and a bearing-less main rotor system, provides outstanding performance and maneuverability. Quiet and cheaper to operate than any other twin-engine helicopter in its class, the helicopter is also equipped with safety equipment such as energy-absorbing fuselage and passenger and crew seats, along with crash-resistant fuel cells.



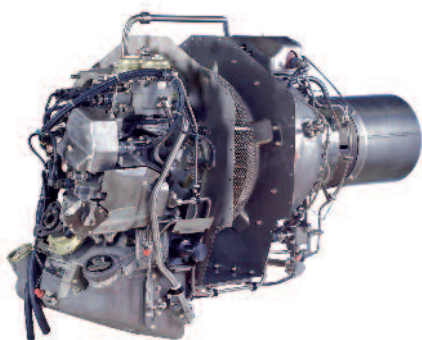


# Advanced technology and design

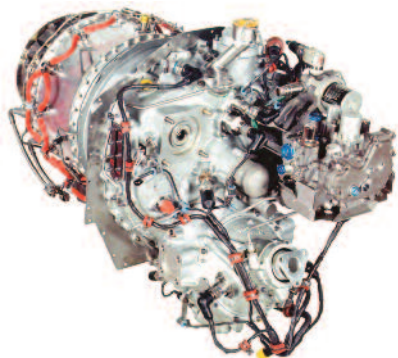
## Engines

Operators can choose between two engines options. Both feature a Full Authority Digital Engine Control (FADEC) system for optimized engine performance and safety:

- Turbomeca Arrius 2B2<sup>plus</sup>



- Pratt & Whitney Canada PW206B3.



## The FADEC

The optimized FADEC software of the H135 offers increased engine performance at less altitude density. The FADEC also greatly simplifies engine control and ensures:

- Top performance in all conditions
- Engine protection
- Engine monitoring.

## New and improved systems

New lateral air intakes compatible with the inlet barrier filter (IBF) reduce installation losses while increasing the engine efficiency.

- Ventilation
- Air conditioning
- Medium height landing gear.

## Large choice of cockpit configurations



- Fully-integrated Thales Avionics glass cockpit using LCD-based multifunction display panels
- Central Panel Display System (CPDS) that incorporates a Vehicle and Engine Multifunction Display (VEMD®) and a Caution and Advisory Display (CAD)
- Possibility to install an advanced, fully-integrated Automatic Flight Control System (AFCS).

## A quiet Fenestron®



This shrouded tail rotor:

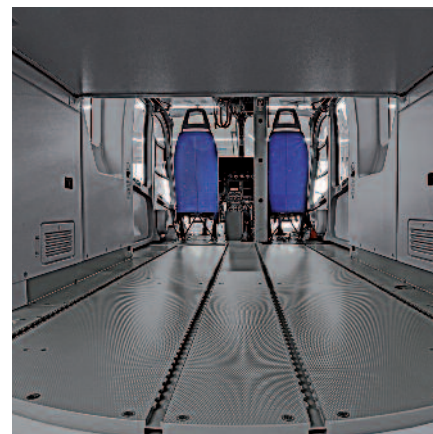
- Provides high efficiency
- Ensures low vulnerability when maneuvering close to terrain
- Is safe for ground personnel
- Has a low external sound signature.

## Four-bladed hinge-less and bearing-less main rotor



The H135's main rotor, which only requires on-condition maintenance, provides agility and very high clearance for enhanced safety on ground.

The 20 cm. increased main rotor diameter provides more lift at constant engine power.



## Cabin

- Unobstructed cabin and cargo compartments
- Volume of 5.9 m<sup>3</sup> (208.35 cubic ft)
- Flat floor from the cockpit to the rear clamshell doors
- Excellent accessibility from all sides: two hinged cockpit doors, two wide sliding doors and two rear-hinged clamshell doors.

# Characteristics

The H135's high endurance and extended range allow operators to meet any mission requirement. It can carry more payloads over longer distances than any twin-engine aircraft in its class, and offers excellent one-engine inoperative (OEI) performance even at high altitudes and in hot climates.

Benefitting from years of experience, an in-service fleet of more than 1,100 helicopters, and 3,700,000 flight hours, the maintenance plan has been improved and scheduled inspections extended.

## PASSENGER TRANSPORTATION

Police / Utility / Offshore		VIP		Hermes	
Pilots	Passengers	Pilots	Passengers	Pilots	Passengers
1	6/7	1	5/6	1	5
2	5/6	2	4/5	2	4

## EMS / Disaster Management

Pilots	Patients	Crew
1	1	up to 4
1	2	up to 3
2	1	up to 3
2	2	up to 2

## DIMENSIONS

Length (rotor rotating)	12.26 m	40.2 ft
Fuselage length	10.20 m	33.5 ft
Height	3.51 m	11.5 ft
Width (without blades)	3.16 m	10.4 ft
Main rotor diameter	10.40 m	34.1 ft
Main rotor ground clearance	2.4 m	7.9 ft

## WEIGHT

Maximum takeoff weight	6,570 lb	2,980 kg
Empty weight, standard configuration	3,267 lb	1,482 kg
Useful load, standard configuration	3,126 lb	1,418 kg
Maximum cargo-sling load	2,646 lb	1,200 kg
Standard fuel capacity	1,235 lb	560 kg

## ENGINE

2 turboshaft engines	Turbomeca Arrius 2B2 <sup>plus</sup> or Pratt & Whitney PW206B3
Cat. A VTOL, SL	2,980 kg / 6,570 lb
ALT limited for Cat. A operations	Clear heliport 12,000 ft DA or PA / 3,655 m DA or PA Restricted or elevated heliport 8,000 ft DA or PA / 2,435 m DA or PA

## AT SL, ISA, Max. gross weight

Maximum speed (VNE)	140 kts	259 km/h
Fast cruise speed	136 kts	252 km/h
OEI Rate of climb (65KIAS), MCP	400 ft/min	2 m/s
Hover ceiling IGE ISA +20	13,300 ft	4,054 m
Hover ceiling OGE ISA +20	8,200 ft	2,499 m
Maximum range at recommended cruise speed (without fuel reserve)	330 NM	611 km

## OPERATION LIMITATIONS

Maximum operating altitude	20,000 ft	6,095 m
Minimum temperature	-31°F	-35°C
Maximum temperature	limited to +50°C / 122°F	ISA +39°C / 102.2°F

The data set forth in this document is for information purposes only, and may vary with conditions. For performance data and operating limitation references, refer to the approved flight manual and all appropriate documents.













## Contacts

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