

H145

One helicopter for a full range of missions



Updated as of September 2019

H145 Global Fleet Figures

In-service Aircraft	Customers	Operating Countries	Total Flight Hours
257	90	35	197,200

Key Features

- The H145 is the most advanced member of Airbus Helicopters' multi-purpose twin-engine category – logging a combined total of over 5 million flight hours and more than 1300 rotorcrafts in service worldwide for the family.
- Compact in size, the H145's large and flexible cabin reconfiguration and powerful engines make it the aircraft of choice for a variety of civil missions.
- Airbus Helicopters' new Helionix avionics suite provides undisputed superiority for in-flight envelope protection, pilot assistance and situational awareness – resulting in unprecedented flight safety levels.
- Equipped with the most advanced dual-duplex four-axis autopilot, this feature offers high flight stability and precision, unique flight envelope and over-limit protection, automated takeoff and fully-coupled approaches to hover.
- Increased safety in flight and on the ground thanks to a new modern and powerful engine with dual channel Full Authority Digital Engine Control Unit, Fenestron tail rotor, innovative human machine

interface, a 4-axis autopilot, compact external design and 360 degree approachability; excellent field of view for the pilot

- The new H145, unveiled at HAI 2019 includes several new features, that will allow operators to enhance their operations:
 - An innovative five-blade hingeless and bearingless rotor that increases the useful load by 150 kg, further enhancing the mission capabilities of the aircraft. This new rotor also improves crew and passenger comfort, making the ride much smoother. Other advantages include a smaller D-value, allowing the H145 to operate in more confined areas, simplified maintenance and an increased availability rate.
 - Greater connectivity will leverage the value of data for safer and more efficient operations. The wireless Airborne Communication System (wACS) that has been installed will allow customers to exchange data seamlessly. The monitoring of the helicopter's systems in real-time is enhanced by the secure transmission of the helicopter and mission data.
 - Customers can choose to retrofit their previous H145 with the new rotor system and take full advantage of the increased useful load and simplified maintenance.

Main Missions

- **Emergency and medical services:** the H145 is an ideal aircraft to perform intensive care missions due to its low noise level – especially when operating over cities and landing at hospitals. With its high set main rotor and Fenestron tail rotor, easy loading and unloading of patients from the side or rear of the aircraft is possible even while rotors are running. Moreover, the H145 offers excellent ergonomics for doctors and crew (e.g. loading heights, EMS cabin concept). The two larger rear clam-shell doors enable quick, easy and safe patient loading. In addition, the spacious and unobstructed cabin allows all the necessary medical life-saving treatment to patients during flight.
- **Offshore wind-turbine:** the H145's power reserves enable this helicopter to perform a variety of aerial work duties; among which is offshore wind farms. As wind farms are being located increasingly farther out to sea, it requires the hoisting and hover performance provided by the H145. Despite a wide and spacious cabin, the main rotor has a very small diameter making it perfectly suited for approaching wind turbines.
- **Law enforcement:** the H145 is always ready for duty as a fast and reliable helicopter that can rapidly transport up to 11 officers to the scene. Primary roles include: patrol, surveillance and rescue missions. It offers a wide range of mission advanced equipment to facilitate the multi-role capabilities in police missions. This aircraft is supported by the installation of forward-looking infrared and daylight cameras that are controlled by an operator who also handles communications and data exchange with ground-based police resources.

Key Dates

- June 2010: First flight of H145 (BK117 D2)
 - April 2014: EASA certification of H145
 - July 2014: Entry into service of H145
 - April 2018: Delivery of the 200th H145
 - March 2019: Unveiling of the new 5-bladed H145 at HAI
 - August 2019: Maiden flight of the second 5-bladed H145 prototype
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Technical Specifications

- Maximum take-off weight: 3,800 kg
 - Useful load: 1,880 kg
 - Engine: Two Safran Arriel 2E turboshaft engines
 - Two pilots and up to ten passengers
 - Performance
 - Maximum cruising speed (VH) with MTOW at ISA/1,500 ft: 131 kts
 - Max range: 352 Nm with std. fuel tank, 441 Nm with auxiliary fuel tank
 - Max endurance: 3h37 with std. fuel tank
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