

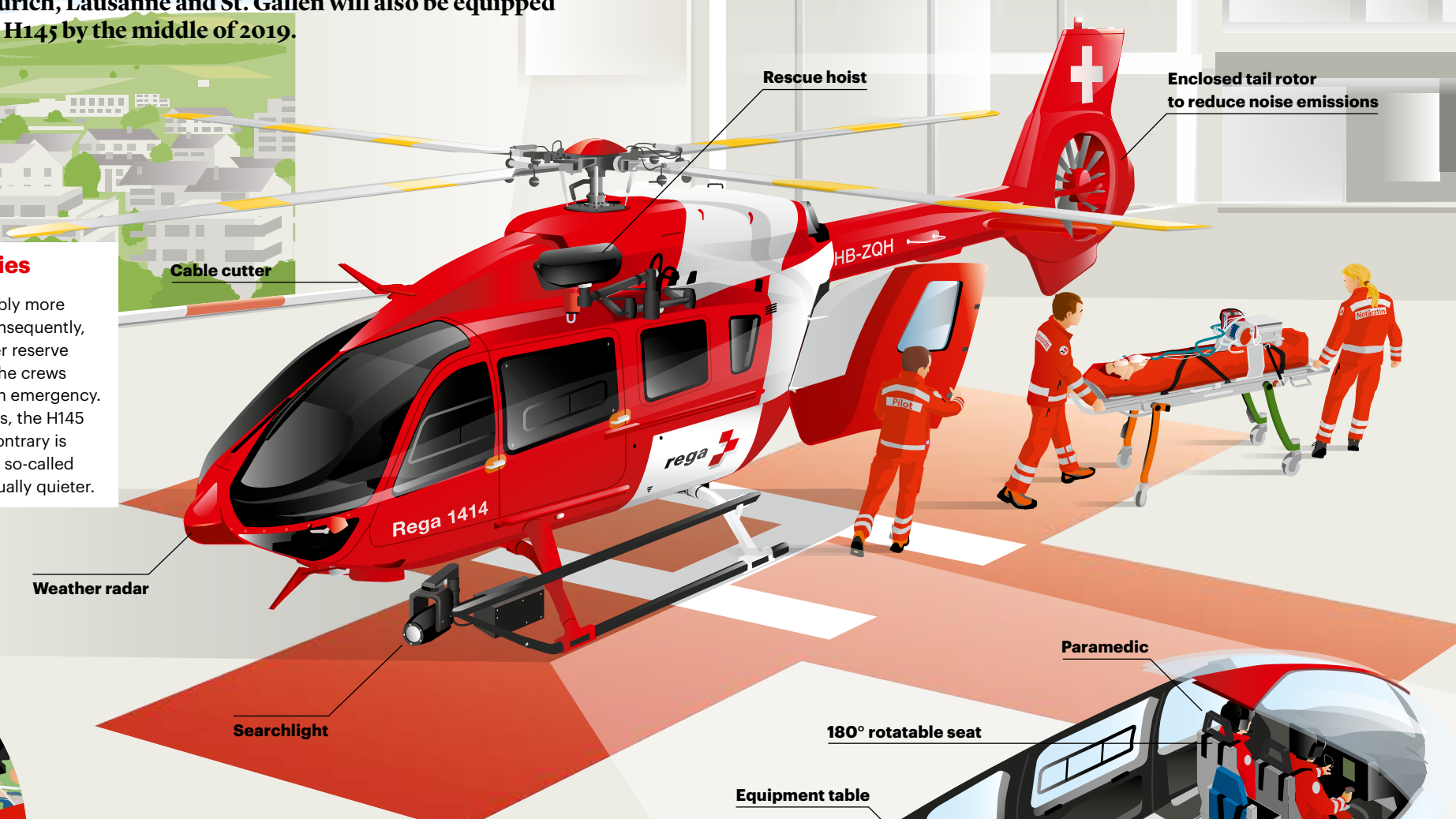
Rega's new H145 helicopter

The crew from the helicopter base in Berne recently commenced operations with Rega's new Airbus Helicopters H145 rescue helicopter. The cabin interior of this latest-generation helicopter has been designed and developed by Rega over the last two years. The helicopter bases in Basel, Zurich, Lausanne and St. Gallen will also be equipped with an H145 by the middle of 2019.

More power for all eventualities

The two engines of the H145 are considerably more powerful than those of its predecessor. Consequently, the new lowland helicopter has more power reserve when it is in operation – an advantage for the crews during rescue missions or in the event of an emergency. However, despite its more powerful engines, the H145 is not louder than the EC 145. In fact, the contrary is true: thanks to the shrouded tail rotor – the so-called Fenestron – the new Rega helicopter is actually quieter.

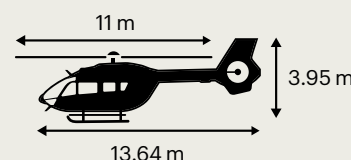
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Cutting-edge navigation and communication systems

The H145 is equipped with an ultramodern glass cockpit, as well as a newly developed avionics system: during the flight, all the key data for the pilot and paramedic are clearly displayed on three large monitors. The extremely precise 4-axis autopilot does not just control the flight attitude in three axes, but also the performance. Thanks to this "fourth axis", the helicopter can, for example, automatically hover on the spot during a rescue hoist operation.

The H145 in figures



Engines
2 x 894 HP

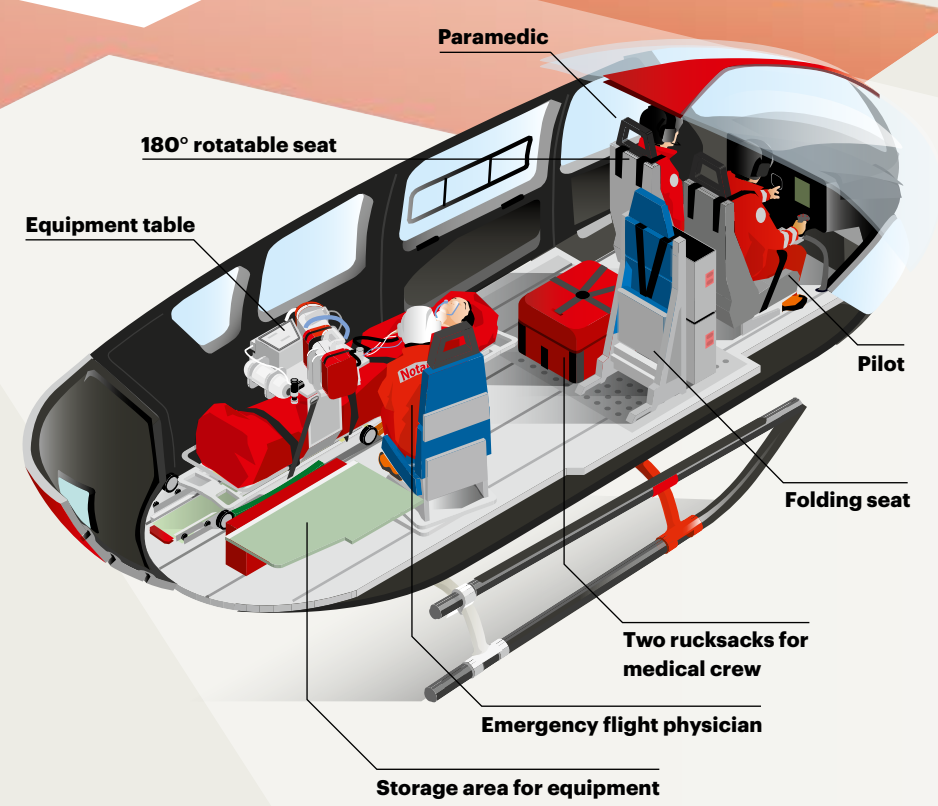
Flying speed:
230 km/h

Max. take-off weight:
3,700 kg

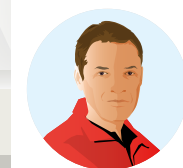
Rescue hoist:
90 m cable length

Operational altitude:
5,000+ m above sea level

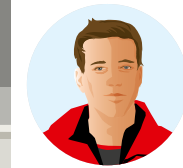
Patient capacity:
1 lying, 1 sitting



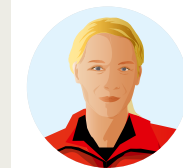
The Rega crew



Pilot
The pilot is responsible for the aircraft and ensures that, from an aeronautical point of view, the mission is carried out precisely, swiftly and safely. At the accident site, if necessary he assists his two colleagues in taking care of the casualty and also communicates with the Operations Centre.



Paramedic
In the air, the paramedic assists the pilot in the cockpit by operating the navigation devices and radio. On the ground, he helps the flight physician to administer first aid. If the helicopter is not able to land next to the casualty, the paramedic is in charge of operating the rescue hoist.



Emergency flight physician
The emergency flight physician bears the medical responsibility for the patient. She checks and stabilises their vital functions, decides whether they are fit for transport and determines the most suitable hospital. She is assisted by the paramedic.

A versatile flying intensive care unit

The operational spectrum of the Rega lowland bases is very broad: it ranges from road and leisure accidents to acute illnesses, right through to special intensive care transports between hospitals. The cabin of the H145, which has been constructed according to Rega's specifications, offers a great amount of flexibility (see page 22): for example, premature babies can be flown in its own transport incubator to a children's hospital. In Rega's "flying intensive care unit", the crew can even attend to seriously ill patients that are attached to a mobile heart-lung machine on the flight to a specialised clinic.

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