

FACT SHEET

Boeing 787-8 Dreamliner

- The Boeing 787-8 Dreamliner is a superefficient airplane with innovative passenger-pleasing features. The 787 delivers the economics of large jet transport to a mid-sized plane, using 20 per cent less fuel than any other airplane of its size.
- The 787 is equipped with Smoother Ride Technology, a Boeing-designed system that senses turbulence and commands wing control to smoothen the ride in moderate turbulence. Passengers will enjoy a more comfortable flight, including reduced motion sickness.
- The window shades aboard the 787 are dramatically different than those found on other commercial jetliners. Electrochromatic window shades—not physical shades—allow passengers to dim the windows and still see the passing terrain.
- Windows on the 787 are the largest of any airplane flying today (47 by 28 centimetres or 18.5 by 11 inches). Passengers in any seat on the airplane enjoy a view to the horizon, which connects them to the flying experience.
- Fresh air is introduced into the cabin via air scoops on the side of the fuselage. Like most current aircraft, the 787 system includes a High Efficiency Particulate Air (HEPA) filter to remove bacteria and viruses. An additional gaseous filtration system also removes odors, irritants and gaseous contaminants, some of the primary contributors to throat, eye and nose irritation.
- The 787 features technologies to improve the sound experience. For example, the scalloped chevrons on the engine casings lower noise both inside and outside the cabin, making the airplane quieter for passengers, ground crews and communities.
- The 787-8 Dreamliner can carry up to 250 passengers on routes of 14,200 to 15,200 kilometres (7,650 to 8,200 nautical miles).
- The cabin is illuminated by energy-efficient, light-emitting diodes (LEDs). Flight attendants can customize onboard lighting in the sky-like ceiling, simulating bright daylight or a restful night sky.

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- Designed to accommodate a variety of different carry-on bags, the 787's overhead bins are the largest in the industry.
- While the 787 cruises at an altitude of close to 13,100 metres (43,000 feet), the cabin altitude feels like 1,830 metres (6,000 feet) to passengers on board.
- Composite materials make up 50 per cent of the primary structure of the 787, including the fuselage and wing.
- The 787 travels at an average speed of Mach 0.85, a similar speed as today's fastest twin-aisle planes.
- The airplane has a wingspan of 60 metres (197 feet) and measures in at 57 metres (186 feet) in length, 17 metres (56 feet) in height, with a total cargo capacity of 125 metre³ (4,400 feet³), and a maximum takeoff weight of 227,930 kilograms (502,500 pounds).
- The 787 features new engines from General Electric and Rolls-Royce that represent nearly a two-generation jump in technology.

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