

Boeing Dreamliner finally takes to the skies

After two years of delays, Boeing's newest aircraft, the 787 Dreamliner, is making its maiden flight. The lightweight carbon and titanium plane promises to save airlines million of dollars in fuel and maintenance costs

INTERIOR: Composite structure allows higher cabin pressure and humidity. Dynamic LED lighting simulates transition from daylight to night sky



Largest windows on any airliner – 48cm

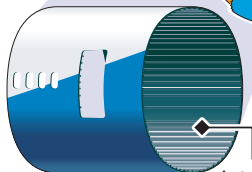
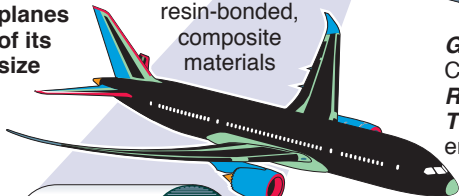
Range: 15,200km
Cruising speed:
900km/h

Length: 57m
Wing span: 60m
Cabin width:
5.74m

787 uses up to 20% less fuel than other planes of its size

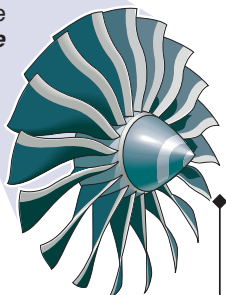
STRUCTURE:
50% made of fibre-reinforced, resin-bonded, composite materials

POWERPLANTS:
Ultra-efficient 36,500kg-thrust **General Electric GENx** turbofans. Can also use **Rolls-Royce Trent 1000** engines



Integral stringers for strength

- Carbon laminate
- Carbon sandwich
- Other composite
- Aluminium
- Titanium



All-composite fan blades and case for low weight and low maintenance

One-piece carbon-fibre fuselage barrel – largest composite pressure vessel ever made – replaces 1,200 sheets of aluminium and 40,000 rivets