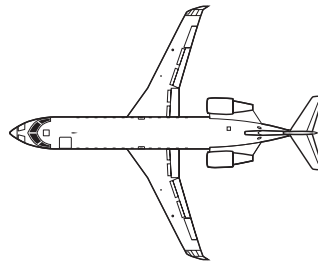
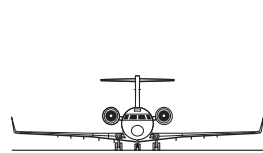


BOMBARDIER  
**CHALLENGER 800**



**GENERAL SPECIFICATIONS. PERFORMANCE. DIMENSIONS.**

# BOMBARDIER CHALLENGER 800



## GENERAL

### Capacity

Crew: 2  
Passengers: 14-19

### Engines

General Electric CF34-3B1 turbofans  
Thrust: 8,729 pounds (38.84 kN) thrust at takeoff  
9,220 pounds (41.0 kN) thrust APR  
Flat-rating: ISA + 8°C (73°F)

### Avionics

- Collins Pro Line 4 six-tube EFIS
- Two-screen EICAS
- Dual FMS 4200
- Dual IRS
- Collins digital weather radar

## PERFORMANCE

### Range

Maximum range 3,120 NM 3,590 SM 5,778 km  
(NBAA IFR Reserves, ISA, with 5 pax/2 crew and maximum fuel)

### Speed

|                         | Mach | kts. | mph | km/h |
|-------------------------|------|------|-----|------|
| High-speed cruise       | 0.80 | 459  | 528 | 850  |
| Typical cruise speed    | 0.77 | 442  | 509 | 819  |
| Long-range cruise speed | 0.74 | 425  | 489 | 787  |

### Airfield Performance

Balanced field length  
(SL, ISA, MGTOW): 6,295 ft (1,919 m)  
Landing distance  
(SL, MLW): 2,910 ft (887 m)

### Ceiling

Maximum operating altitude: 41,000 ft (12,497 m)

### Noise Level

EPNdB  
Takeoff: 78.7  
Approach: 92.1  
Sideline: 82.2

## DIMENSIONS

### External

Length overall: 87.83 ft (26.77 m)  
Wingspan: 69.58 ft (21.21 m)  
Wing area (net): 520.4 ft<sup>2</sup> (48.35 m<sup>2</sup>)  
Height overall: 20.42 ft (6.22 m)

### Internal

Cabin length: 48.42 ft (14.76 m)  
(from cockpit divider to end of pressurized compartment)  
Cabin maximum width: 8.17 ft (2.49 m)  
(centerline)  
Cabin width: 7.17 ft (2.19 m)  
(floorline)  
Cabin height: 6.08 ft (1.85 m)  
Floor area: 326 ft<sup>2</sup> (30.29 m<sup>2</sup>)  
(excluding cockpit & baggage)  
Cabin volume: 1,900 ft<sup>3</sup> (53.80 m<sup>3</sup>)  
(excluding cockpit)

### Doors & Exits

Passenger door (LH, fwd) height: 5.83 ft (1.78 m)  
Width: 3 ft (0.91 m)  
Height to sill: 5.29 ft (1.61 m)  
Baggage door (LH, aft) height: 2.75 ft (0.84 m)  
Width: 3.58 ft (1.09 m)  
Height to sill: 5.29 ft (1.61 m)

### Weights

A. Maximum ramp weight: 53,250 lb (24,154 kg)  
B. Maximum takeoff weight: 53,000 lb (24,040 kg)  
C. Maximum landing weight: 47,000 lb (21,319 kg)  
D. Maximum zero fuel weight: 39,500 lb (17,917 kg)  
E. Basic operating weight: 33,900 lb (15,377 kg)  
F. Maximum fuel weight: 18,305 lb (8,303 kg)  
Maximum payload (D-E): 5,600 lb (2,540 kg)  
Payload - full fuel (A-E-F): 1,045 lb (474 kg)  
Fuel with maximum payload: 13,750 lb (6,237 kg)

Building upon the Bombardier Challenger® history of outstanding reliability, dependability, proven performance and value, the Challenger 800 offers the incomparable flexibility of customized configurations for corporate and government operators. The Challenger 800 offers a large cabin to accommodate 14-19 passengers, a nonstop range of 3,120 nautical miles (5,778 km), and a high-speed cruise of Mach 0.80 (528 mph; 850 km/h) at a maximum operational ceiling of 41,000 feet (12,497 m).

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PERFORMANCE IS BASED ON MAXIMUM TAKEOFF/LANDING WEIGHT, SEA LEVEL, STANDARD DAY (ISA) CONDITIONS, UNLESS OTHERWISE NOTED.

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AEROSPACE



Experience the Extraordinary