

BOMBARDIER  
**CHALLENGER 850**

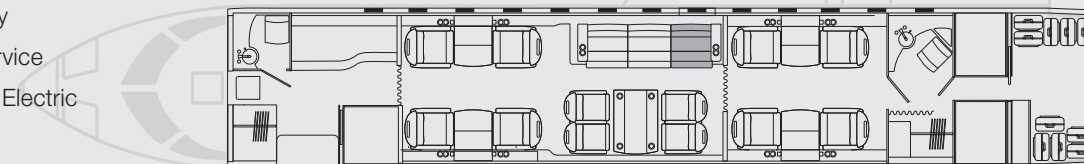


# BOMBARDIER CHALLENGER 850



Airliner endurance partners with business jet comfort and flexibility, in the 'class-capturing' Bombardier Challenger 850 aircraft. With the largest, most versatile interior in its class, and a non-stop range that delivers transcontinental ease, this powerful and rugged large corporate jet aircraft has become the gold standard for reliability, dependability and value.

- Superior space, flexibility and corporate luxury
- Airframe proven in over 11 million hours of service
- Powered by the fuel efficient, reliable General Electric CF34-3B1 turbofans



## GENERAL

### Capacity

Crew: 2  
Typical seating: Up to 14

### Engines

General Electric  
CF34-3B1 turbofans  
Thrust: 8,729 lb (38.84 kN)  
Thrust with APR: 9,220 lb (41.0 kN)  
Flat rated to: ISA + 8°C (73°F)

### Avionics

- Rockwell Collins Pro Line 4 six-screen EFIS
- Two-screen EICAS
- Dual Flight Management System (FMS) 4200
- Dual Global Positioning System (GPS)
- Dual Inertial Reference System (IRS)
- Dual DME / Dual ADF
- Enhanced Ground Proximity Warning System (EGPWS)
- Traffic Collision Avoidance System (TCAS II)

## PERFORMANCE

### Range

8 passengers:  
2,811 NM      3,235 SM      5,206 km  
(Theoretical range with NBAA IFR Reserves, ISA, 8 pax/2 crew. Actual range will be affected by speed, weather, selected options and other factors.)

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

### Airfield Performance

Takeoff distance (SL, ISA, MTOW):  
6,305 ft (1,922 m)  
Landing distance (SL, ISA, MLW):  
2,910 ft (887 m)

### Operating Altitude

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

### Noise Level (EPNdB)

Flyover: 78.8  
Approach: 92.1  
Lateral: 82.4

## DIMENSIONS

### Exterior

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)

### Interior

Cabin length: 48.42 ft (14.76 m)  
(from cockpit divider to end of pressurized compartment)  
Cabin 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: 346 ft<sup>2</sup> (32.14 m<sup>2</sup>)  
(excluding cockpit)  
Cabin volume: 1,990 ft<sup>3</sup> (56.35 m<sup>3</sup>)  
(excluding cockpit)

### 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:  
44,000 lb (19,958 kg)  
E. Typical basic operating weight:  
34,618 lb (15,702 kg)  
F. Maximum usable fuel weight:  
18,274 lb (8,289 kg)  
Maximum payload (D-E):  
9,382 lb (4,256 kg)  
Payload - maximum fuel (A-E-F):  
358 lb (162 kg)  
Fuel with maximum payload (A-D):  
9,250 lb (4,196 kg)

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Performance is based on maximum takeoff/landing weight, sea level, standard day (ISA) conditions, unless otherwise noted. All data in this document is approximate, for discussion purposes only and may be subject to certain conditions. This document does not constitute an offer, commitment, representation or warranty of any kind. All data is subject to change without prior notice. The interior images shown are for information purposes only and may represent some optional configurations. The final configuration and performance of the aircraft shall be as per the contractually agreed upon purchase agreement.

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