

BOMBARDIER  
**CHALLENGER 604**



GENERAL SPECIFICATIONS. PERFORMANCE. DIMENSIONS.

# BOMBARDIER CHALLENGER 604

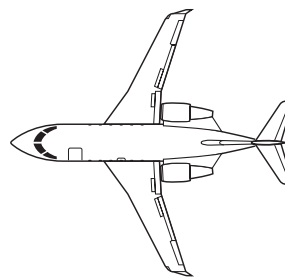
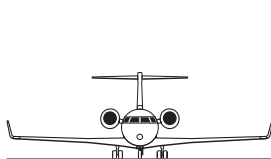


*Certified for civil operation in 40 countries, the Bombardier Challenger® 604 has established a proven track record for dependability, reliability and outstanding value, making it the best-selling jet in its class. Offering the widest cabin of any true business jet available today, stand-up room of over six feet and a passive noise insulation system, it provides superior cabin comfort for its passengers. With a maximum cruise speed of Mach 0.82 (541 mph; 870 km/h) and an intercontinental range of 4,077 nautical miles (7,551 km), the Bombardier Challenger 604 is well suited for any mission.*

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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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## GENERAL

### Capacity

Crew: 2+1  
Passengers: 9-19

### Engines

General Electric CF34-3B turbofans  
Thrust: 8,729 pounds (38.84 kN) thrust at takeoff  
9,220 pounds (41.0 kN) thrust APR  
Flat-rating: ISA + 15°C (86°F)

### Avionics

- Collins Pro Line 4 six-tube EFIS with PrecisionPlus upgrade
- Two-screen EICAS
- Dual Litton LTN-101 inertial reference systems
- Collins WXP-4220 digital weather radar
- Collins nav/comms
- TCASII, EGPWS, Dual GPS

## PERFORMANCE

### Range

Maximum range  
at M 0.74: 4,077 NM 4,692 SM 7,551 km  
Maximum range  
at M 0.80: 3,769 NM 4,337 SM 6,980 km  
(NBAA IFR Reserves, ISA, with 5 pax/2 crew and maximum fuel)

### Speed

	Mach	kts.	mph	km/h
High-speed cruise	0.82	470	541	870
Typical cruise speed	0.80	459	528	850
Long-range cruise speed	0.74	425	489	787

### Airfield Performance

Balanced field length  
(SL, ISA, MGTOW): 5,699 ft (1,737 m)  
Landing distance  
(SL, ISA, MLW): 2,777 ft (846 m)

### Ceiling

Maximum operating altitude: 41,000 ft (12,497 m)  
Climb to cruise altitude of  
37,600 ft (11,460 m): 22 minutes

## Noise Level

EPNdB  
Takeoff: 80.9  
Approach: 90.3  
Sideline: 86.2

## DIMENSIONS

### External

Length: 68.42 ft (20.85 m)  
Wingspan: 64.33 ft (19.61 m)  
Wing area: 492 ft² (45.71 m²)  
(basic)  
Height overall: 20.67 ft (6.30 m)

### Internal

Cabin length: 28.42 ft (8.66 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: 202 ft² (18.77 m²)  
(excluding cockpit)  
Total volume: 1,150 ft³ (32.56 m³)  
(from cockpit divider to end of pressurized compartment)

### Weights

A. Maximum ramp weight: 47,700 lb\* (21,636 kg)  
B. Maximum takeoff weight: 47,600 lb\* (21,591 kg)  
C. Maximum landing weight: 38,000 lb (17,237 kg)  
D. Maximum zero fuel weight: 32,000 lb (14,515 kg)  
E. Spec. basic  
operating weight: 26,630 lb (12,079 kg)  
F. Maximum fuel weight: 20,000 lb (9,072 kg)  
Payload – full fuel (A-E-F)\*: 1,070 lb (485 kg)  
Maximum payload (D-E): 5,370 lb (2,436 kg)  
Fuel with maximum payload: 15,700 lb (7,122 kg)

\* 48,300 lb/48,200 lb option - yields a maximum payload with full fuel of 1,670 lb

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