

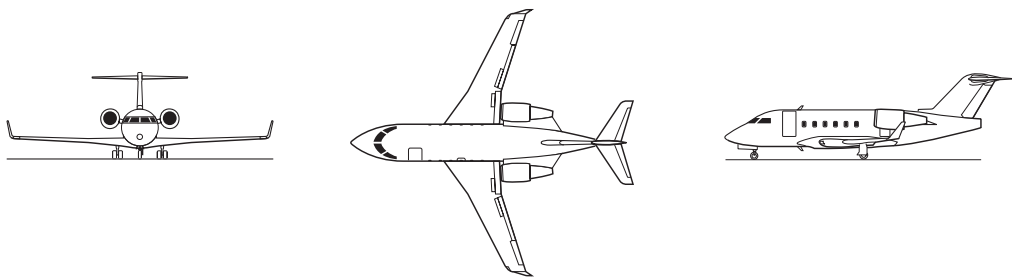
BOMBARDIER
CHALLENGER 604



GENERAL SPECIFICATIONS. PERFORMANCE. DIMENSIONS.



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 over 4,000 nautical miles (7,408 km), the Bombardier Challenger 604 is well suited for any mission.



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: 4,027 NM 4,634 SM 7,458 km
Maximum range
at M 0.80: 3,714 NM 4,274 SM 6,878 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): 5,840 ft (1,780 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
37,000 ft (11,278 m): 22 minutes

Noise Level

EPNdB
Takeoff: 81.2
Approach: 90.3
Sideline: 86.2

DIMENSIONS

External

Length: 68.42 ft (20.85 m)
Wingspan: 64.33 ft (19.61 m)
Wing area:
(basic) 492 ft² (45.71 m²)
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:
(centerline) 8.17 ft (2.49 m)
Cabin width:
(floorline) 7.17 ft (2.19 m)
Cabin height: 6.08 ft (1.85 m)
Floor area:
(excluding cockpit) 202 ft² (18.77 m²)
Total volume: 1,150 ft³ (32.56 m³)
(from cockpit divider to end of pressurized compartment)

Weights

A. Maximum ramp weight: 48,300 lb (21,909 kg)
B. Maximum takeoff weight: 48,200 lb (21,863 kg)
C. Maximum landing weight: 38,000 lb (17,237 kg)
D. Maximum zero fuel weight: 32,000 lb (14,515 kg)
E. Standard basic
operating weight: 27,185 lb (12,331 kg)
F. Maximum fuel weight: 20,000 lb (9,072 kg)
Payload – full fuel (A-E-F): 1,115 lb (506 kg)
Maximum payload (D-E): 4,815 lb (2,184 kg)
Fuel with maximum payload: 16,300 lb (7,394 kg)

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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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