BOMBARDIER

CHALLENGER 605





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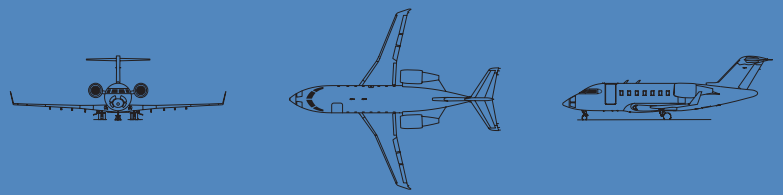
Next-generation by design, the Bombardier* Challenger* 605 widebody business jet was built in response to the needs and necessities of pilots and business leaders alike. Now, even more spacious, the aircraft is designed with more business, relaxation and entertainment flexibility than any other large business jet. Benefits derived from the 25-year-plus Bombardier Regional Jet program are felt in every aspect, with increased payload/range capacity and superior airliner maintainability.

- Evolution of the best-in-class business environment, offering the widest cabin in its class
- Latest-generation cockpit functionality and simplicity led by the Rockwell Collins Pro Line 21 avionics suite
- Airliner maintainability, superior aircraft reliability.



GENERAL

Capacity

Crew: 2+1

Passengers: Up to 12

Engines

General Electric
CF34-3B turbofans

Thrust: 8,729 lb (38.84 kN)
Thrust with APR: 9,220 lb (41.0 kN)

Flat rated to: ISA + 15°C (86°F)

Avionics

- Rockwell Collins Pro Line 21 with four 10" x 12" (25.4 cm x 30.5 cm) LCD screens and integrated menu control
- Dual autopilot with single autothrottle
- EFIS/EICAS system with synoptics
- Dual FMS-6000 with coupled lateral and vertical nav, performance calculations
- Integrated Flight Information System (IFIS)
- Dual Honeywell Laseref V Inertial Reference System
- Integrated Radio Tuning with Rockwell Collins Pro Line 21 VHF/Nav radios
- Integrated electronic standby instruments
- Optional Head-Up Guidance System (HGS)/Bombardier Enhanced Vision System (BEVS)

PERFORMANCE

Range

Maximum range at M 0.74:
4,010 NM 4,614 SM 7,427 km

(Theoretical range with NBAA IFR reserves, ISA, 7 pax/2 crew, typical BOW and maximum allowable fuel. Actual range will be affected by speed, weather, selected options and other factors.)

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

Airfield Performance

Takeoff distance (SL, ISA, MTOW):
5,840 ft (1,780 m)

Landing distance (SL, ISA, MLW):
2,775 ft (846 m)

Operating Altitude

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

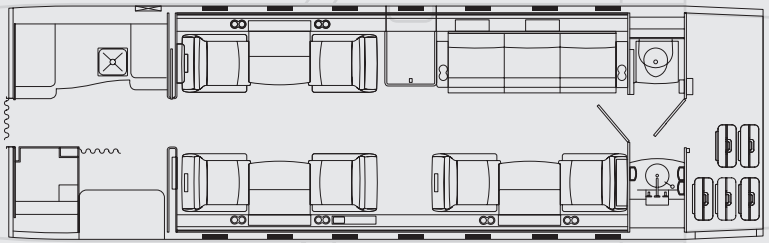
Initial cruise altitude:
37,000 ft (11,278 m)

Noise Level (EPNdB)

Flyover: 81.2

Approach: 90.3

Lateral: 86.2



DIMENSIONS

Exterior

Length: 68.42 ft (20.85 m)

Wingspan: 64.33 ft (19.61 m)

Wing area: 492 ft^2 (45.71 m^2)
(basic)

Height overall: 20.67 ft (6.30 m)

Interior

Cabin length: 28.42 ft (8.66 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: 202 ft^2 (18.77 m^2)
(excluding cockpit)

Cabin volume: 1,150 ft^3 (32.56 m^3)
(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. Typical basic operating weight:
26,915 lb (12,209 kg)

F. Maximum fuel weight:
20,000 lb (9,072 kg)

Maximum payload (D-E):
5,085 lb (2,306 kg)

Payload with maximum fuel (A-E-F):
1,385 lb (628 kg)

Fuel with maximum payload (A-D):
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. All data in this document is approximate, for discussion purposes only and may be subject to certain conditions. All internal dimensions are based on an aircraft without a completed interior. 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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