

CSERIES 



CS100

Bombardier is creating the future with its *CSeries* aircraft – the only 100%-new family of airliners specifically designed for the 100- to 149-seat, single-aisle market. Benefitting from a clean-sheet design that includes leading-edge technology and systems integration, advanced materials and latest-generation aerodynamics, the *CSeries* aircraft offer a 15%* cash operating cost advantage, a 20%* fuel burn advantage, exceptional operational flexibility, widebody comfort and an unmatched environmental and noise footprint.

The *CS100* aircraft offers unmatched flexibility for many airline business models and is an ideal solution for hot-and-high and city-centre airport operations.

BOMBARDIER
the evolution of mobility

CS100



GENERAL

Flight Crew	2
Cabin Crew	2 to 5
Passengers	Standard Configuration – 110 passengers Maximum Capacity – 125 passengers

AVIONICS INFO

Advanced Flight Deck

- + Advanced Fly-by-Wire with Full Envelope Protection & Speed Stabilization
- + Five large 15.1" LCD Displays
- + Side Stick Controls
- + Cat IIIa Autoland
- + Graphical Flight Management System
- + Advanced Multi-Scan Weather Radar
- + Required Navigation Performance Authorization Required (RNP AR)

Optional Features

- + CAT IIIb Autoland
- + Single or Dual Head-Up Display System (HUD)
- + Class 2 Electronic Flight Bag
- + Integrated Flight Information System
- + SATCOM Voice and Data Link
- + Full-Format Printer with Graphics Capability
- + Controller Pilot Data Link Communication (CPDLC)

ENGINE

Type	2 Pratt & Whitney PurePower® PW1500G** Engines		
Thrust	PW1519G Engines	18,900 lbf.	84.1 kN
	PW1521G Engines	21,000 lbf.	93.4 kN
	PW1524G Engines	23,300 lbf.	103.6 kN
Flat Rating	ISA + 15.0°C		

PERFORMANCE

Range (225 lb. / 102 kg per pax., MTOW, normal cruise)

Base (110 pax. @ 32" pitch)	1,500 NM	1,726 SM	2,778 km
Max (110 pax. @ 32" pitch)	2,950 NM	3,395 SM	5,463 km

Speed (FL370, ISA)

Maximum Cruise Speed	0.82 Mach	470 kts	541 mph	871 km/h
Normal Cruise Speed	0.78 Mach	447 kts	515 mph	829 km/h

Takeoff Field Length (ISA, SL, MTOW, Max. Thrust)

Base	4,000 ft.	1,219 m
Max	4,800 ft.	1,463 m

Landing Field Length¹ (ISA, SL, MLW)

Base	4,400 ft.	1,341 m
Max	4,450 ft.	1,356 m

CEILING

Maximum Operating Altitude	41,000 ft.	12,497 m
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NOISE LEVEL

Margin to Stage 4	21 EPNdB
Margin to Stage 5	Up to 15 EPNdB

EMISSIONS² (MARGINS TO CAEP6)

NOx	55%
Smoke	50%
UHC (Unburned Hydrocarbons)	75%
CO	50%

¹ Actual landing distance can be shorter when reduced payload and end of mission weights are considered.

² Assuming PW1524G Engine

EXTERNAL DIMENSIONS

Length	114 ft. 9 in.	35.0 m
Wingspan	115 ft. 1 in.	35.1 m
Wing Area (net)	1,209 ft. ²	112.3 m ²
Height	37 ft. 8 in.	11.5 m
Fuselage Maximum Diameter	12 ft. 2 in.	3.7 m

INTERNAL DIMENSIONS

Cabin Length	77 ft. 10 in.	23.7 m
Cabin Maximum Width (Centreline)	10 ft. 9 in.	3.28 m
Cabin Width (Floor Level)	10 ft. 2 in.	3.10 m
Cabin Aisle Height	6 ft. 11 in.	2.11 m
Cabin Aisle Width	20.0 in.	0.51 m
Seat Width (Aisle and Window)	18.5 in.	0.47 m
Seat Width (Middle)	19.0 in.	0.48 m
Overhead Bin Volume per Pax	2.4 ft. ³	0.07 m ³
Cargo Volume	838 ft. ³	23.7 m ³
Floor Area	778 ft. ²	72 m ²

DOORS & EXITS

Passenger Door	Height	Width	Height to Sill
LH FWD	6 ft. 2 in. / 1.88 m	2 ft. 8 in. / 0.81 m	10 ft. 1 in. / 3.06 m
LH AFT	6 ft. 0 in. / 1.83 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
Cargo Door	Height	Width	Height to Sill
FWD	2 ft. 8 in. / 0.81 m	3 ft. 8 in. / 1.12 m	6 ft. 2 in. / 1.88 m
AFT	2 ft. 8 in. / 0.81 m	3 ft. 8 in. / 1.12 m	6 ft. 2 in. / 1.88 m
Service Door	Height	Width	Height to Sill
RH FWD	5 ft. 0 in. / 1.52 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
RH AFT	5 ft. 0 in. / 1.52 m	2 ft. 6 in. / 0.76 m	10 ft. 1 in. / 3.06 m
Overwing Exits	Height	Width	
LH / RH	3 ft. 6 in. / 1.08 m	1 ft. 11 in. / 0.59 m	

WEIGHTS

Maximum Ramp Weight

Base	117,000 lb.	53,070 kg
Max	130,000 lb.	58,967 kg

Maximum Takeoff Weight

Base	116,000 lb.	52,617 kg
Max	129,000 lb.	58,513 kg

Maximum Landing Weight

Base	110,000 lb.	49,895 kg
Max	112,000 lb.	50,802 kg

Maximum Payload

Base	30,150 lb.	13,676 kg
Max	32,150 lb.	14,583 kg

Cargo Weight

8,000 lb.	3,629 kg
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*Compared to in-production aircraft in its class @ 500 NM.

**PurePower® PW1500G, PW1519G, PW1521G and PW1524G Engines are trademarks of United Technologies Corp. – Pratt & Whitney or its subsidiaries.

DISCLAIMER The CSeries aircraft are in the development phase. All data and specifications are estimates, subject to changes in family strategy, branding, capacity and performance during the development, manufacture and certification process. All performance references have been estimated based on a 500-nm North American operating environment and comparisons are to in-production aircraft. This document does not constitute an offer, commitment, representation, guarantee or warranty of any kind. The configuration and performance of the aircraft may differ from the image shown and, together with any related commitment, representations, guarantee or warranty, shall be determined in a final purchase agreement.

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