

A Bombardier Q400 NextGen turboprop aircraft is shown in flight, banking to the right. The aircraft is white with blue accents and features the Bombardier logo on the side. The background is a scenic view of a mountainous landscape with green hills and a clear sky. The aircraft's propellers are blurred, indicating motion.

Q400 NextGen ✦

Q400

NextGen

With the introduction of the *Q400 NextGen* aircraft, Bombardier invented the modern turboprop. Optimized for short-haul operations and seating up to 86 passengers, the aircraft is a large, fast, quiet and fuel-efficient turboprop that provides the perfect balance of passenger comfort, performance and operational flexibility with the lowest seat-mile costs in the short-haul regional market. With the flexibility to fly at both turboprop and jet-like speeds, the *Q400 NextGen* aircraft can be profitably deployed over short-range turboprop missions and in medium-haul jet markets. Now available in optional dual class, extra capacity and passenger-cargo combi configurations, the *Q400 NextGen* aircraft's versatility positions it to again reshape the turboprop market through profitable growth.

BOMBARDIER
the evolution of mobility

Q400

NextGen



GENERAL

Flight Crew	2
Cabin Crew	2 to 3
Passengers	Up to 86

AVIONICS INFO

- + Thales V810 with five-screen EFIS/EICAS
- + UNS-1E FMS single or dual*
- + Traffic alert & collision avoidance system (TCAS) v7.1
- + Capabilities: Coupled VNAV*, SBAS/WAAS LPV*, RNP AR*, ADS-B Out*, EGPWS, ACARS*, HGS*, MicroQAR*, Class 2 EFB*

ENGINE

Type	2 PW150A turboprops
Flat Rating	ISA + 22.4°C
Thrust	5,071 shp maximum takeoff 4,580 shp normal takeoff
Propellers	2 Dowty model R408, electronically controlled, 6 composite blades

PERFORMANCE

Range (225 lb. / 102 kg per pax., LRC, IFR reserves)

Q400 NextGen BASIC¹ 699 NM 804 SM 1,295 km

Q400 NextGen EHWG¹ 1,114 NM 1,282 SM 2,063 km

¹ (74 pax. @ 31" pitch)

Speed			
Maximum Cruise Speed	360 kts	414 mph	667 km/h
High Speed Cruise	349 kts	402 mph	646 km/h
Intermediate Speed	322 kts	370 mph	596 km/h
Long-Range Cruise Speed	287 kts	330 mph	532 km/h

Takeoff Field Length (ISA, SL, MTOW)**

Q400 NextGen BASIC 4,265 ft. 1,300 m

Q400 NextGen EHWG 4,675 ft. 1,425 m

Landing Field Length (ISA, SL, MLW)

Q400 NextGen BASIC 4,160 ft. 1,268 m

Q400 NextGen EHWG 4,230 ft. 1,289 m

CEILING

Maximum Operating Altitude	25,000 ft. 7,620 m
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NOISE LEVEL (EHGW)

Flyover	78.6 EPNdB
Lateral	84.0 EPNdB
Approach	93.1 EPNdB
Margin to Stage 4	15.3 EPNdB

EMISSIONS (MARGINS TO CAEP6)

NOx	63 %
Smoke	77 %
UHC (Unburned Hydrocarbons)	39 %
CO	76 %

COMBI CONFIGURATION***

Passengers	Up to 68
Cargo Volume	Up to 1,150 cu. ft. (32.6 cu. m)
Features	Class C cargo compartment, single and dual flight attendant seats, APU (Hamilton Sundstrand APS 1000)

- + Optional features
++ With AFM supplement #46 option - increased takeoff power
+++ Under study and subject to program launch

EXTERNAL DIMENSIONS

Length	107 ft. 9 in.	32.8 m
Wingspan	93 ft. 3 in.	28.4 m
Wing Area (net)	689 ft. ²	64 m ²
Height	27 ft. 5 in.	8.4 m
Fuselage Maximum Diameter	8 ft. 10 in.	2.7 m

INTERNAL DIMENSIONS

Cabin Length	61 ft. 8 in.	18.80 m
Cabin Maximum Width (Centerline)	8 ft. 3 in.	2.51 m
Cabin Width (Floor Level)	6 ft. 8 in.	2.03 m
Cabin Aisle Height	6 ft. 5 in.	1.95 m
Cabin Volume	2,740 ft. ³	77.6 m ³
Overhead Bin Volume per Pax.	1.7 ft. ³	0.05 m ³
Cargo Volume	502 ft. ³	14.2 m ³
Floor Area	411 ft. ²	38.2 m ²

DOORS & EXITS

Passenger Door	Height	Width	Height to Sill
LH FWD	5 ft. 2 in. / 1.58 m	2 ft. 6 in. / 0.76 m	4 ft. 0 in. / 1.23 m
LH AFT	5 ft. 8 in. / 1.72 m	2 ft. 4 in. / 0.71 m	5 ft. 1 in. / 1.55 m
Cargo Door	Height	Width	Height to Sill
LH AFT	5 ft. 0 in. / 1.52 m	4 ft. 7 in. / 1.40 m	5 ft. 1 in. / 1.55 m
RH FWD	4 ft. 9 in. / 1.45 m	2 ft. 4 in. / 0.71 m	4 ft. 1 in. / 1.27 m

WEIGHTS

Maximum Ramp Weight		
Q400 NextGen BASIC	61,900 lb.	28,077 kg
Q400 NextGen EHWG	65,400 lb.	29,665 kg
Maximum Takeoff Weight		
Q400 NextGen BASIC	61,700 lb.	27,987 kg
Q400 NextGen EHWG	65,200 lb.	29,574 kg
Maximum Landing Weight		
Q400 NextGen BASIC	60,500 lb.	27,442 kg
Q400 NextGen EHWG	62,000 lb.	28,123 kg
Maximum Zero Fuel Weight		
Q400 NextGen BASIC	55,500 lb.	25,174 kg
Q400 NextGen EHWG	58,000 lb.	26,308 kg
Maximum Payload		
Q400 NextGen BASIC	16,216 lb.	7,355 kg
Q400 NextGen EHWG	18,716 lb.	8,489 kg
Maximum Cargo Weight (Typical configuration)	4,710 lb.	2,136 kg
Maximum Cargo Weight (Combi configuration***)	8,200 lb.	3,719 kg

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Bombardier Commercial Aircraft
Telephone: +1 450-476-5795
www.commercialaircraft.bombardier.com

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