

BOMBARDIER Q400



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Hello,

Thank you for downloading the Bombardier Q400! This Gmax model is fully compatible with FS2004 and features things as all moving parts, opening doors and visible prop pitch. This document contains information on how to fly the aircraft and copyright and disclaimer information.

Enjoy the model!

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About the Q400

The Bombardier De Havilland Dash 8 series 400, or shorter the Q400, is the longest and fastest member of the popular Q-series. The Q400 program was formally launched in June 1995, with the first flight on January 31, 1998. The aircraft was specially designed for the short haul regional airliner market, with routes around 300nm. Compared with the Q300 the fuselage has been stretched by 22ft 5in, or 6.83m. While the cross section has remained the same, there are now two entry doors, one in front and one behind the wing. The Q400 has been fitted with the NVS, active noise and vibration system, which reduces the cabin noise levels to about the same you would experience in a CRJ-jet.

Specifications

Weights:

Operating Empty:	37717 lb
Payload, 70pax + baggage @220lb each:	15400 lb
Maximum fuel:	11381 lb
Maximum takeoff weight:	64500 lb
Maximum landing weight:	61750 lb

FS Model has a zero fuel weight of:
37717 lb + 15400 lb = 53117 lb
53117 lb + 11381 lb = 64500 lb
Which means if you take full fuel, the aircraft will be at MTOW.

Speeds:

Weight (lb)	55400	57700	60000	62200	64500
Fuel (%)	20%	40%	60%	80%	100%
Vr (kts)	104	106	108	110	112
Vref (kts)	108	110	113	115	117

Cruise speed:

Altitude	FL170	FL250
Speed (kias)	279	230
Speed (kts)	350	330
Mach	.56	.55

Kias = Indicated airspeed
Kts = Groundspeed

Performance

Passengers:	168 – 172
Takeoff field length:	4600ft / 1402m
Landing field length:	4221ft / 1287m
Maximum altitude:	27000ft
Range:	1362 nm / 2522 km

Dimensions

Length:	107ft 9in / 32.84m
Wingspan:	93ft 3in / 28.42m
Height:	27ft 5in / 8.34m

Credits:

The Gmax model has been based on the Dash 8-100 AI aircraft model that comes with FS2002Pro. Most of the parts of this original aircraft have been altered or made completely new. Parts that are directly copied from the MS model are: the wing/fuse connection, large parts of the landing gear, a large part of the wing and most of the engines. Do note that many of the previous parts have been altered to reflect the changes between the Q100 and the Q400. Completely new parts are the fuselage and the vertical tail.

Dash Q400 model conversion, dynamics and textures: Robert Versluys.

Copyrights

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