

Monthly Program Profile: Bombardier Challenger 300/350

Bombardier Challenger 300/350

In the highly competitive super-midsize market that includes compelling entries from business aviation's biggest names, Bombardier's successful Challenger 300/350 family represents 1/3 of the current in-service fleet alone in that category with over 550 aircraft in operation. The vast majority of these aircraft are operated from North America with Western Europe being the distant second largest fleet. Incorporating improvements in both aircraft systems and passenger comfort while retaining tried and true aspects of the Challenger 300, the Challenger 350 represents a much improved aircraft with a relatively modest increased price tag.

Although the Challenger 350 is not a clean-sheet design, it features aerodynamic, performance, payload, and avionics improvements that are meant to keep it competitive in a market awash with worthy competitors. From an aerodynamic standpoint, changes were made to the winglets to reduce drag while increasing the wingspan, aspect ratio, and overall wing area. That, combined with improved Honeywell HTF7350/AS907-2-1A engines that each produce 7,323 pounds of thrust, enables the 350 to stake its claim as having the fastest time-to-climb in business aviation according to Bombardier's pronouncements. In addition to aerodynamic and performance improvements, the Challenger 350 also



features a 1,750-pound increase in takeoff weight from the earlier model. For the pilot, the cockpit holds a Rockwell Collin's Pro Line 21 avionics package, with four LCD Display Units, a Next Gen/SESAR FMS, Synthetic Vision System, weather radar, TCAS 7.1 system and voice/data recorders.

The Challenger 350 first flew on March 2, 2013 and received type certification from Transport Canada June 13, 2014. It is manufactured in Montreal.

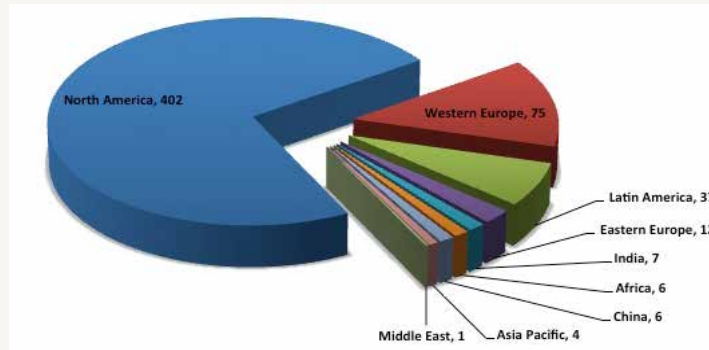
Operations & Orders: The largest current operator is Flexjet with (30) 300s and (7) 350s, from a firm order for (20) overall. A Letter of Intent for (20) more was announced the most recent NBAA. Netjets' existing includes (125) options, (26) delivered to date, including (4) to Netjets Europe.

Bombardier Challenger 300/350 Specifications

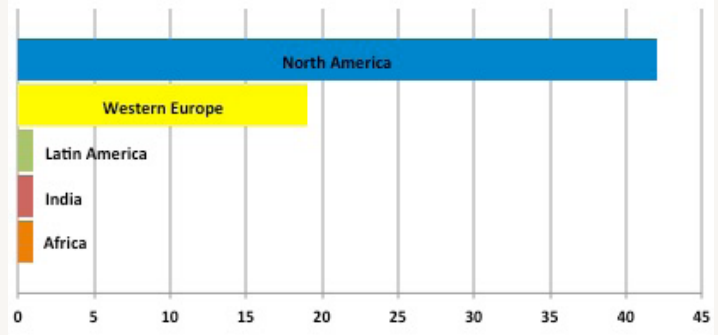
PERFORMANCE			
Maximum Range*		3,200 nm	
High-Speed Cruise		0.82 MACH, 470 KTAS	
Long-Range Cruise		0.80 MACH, 458 KTAS	
MMO (Maximum Operating Mach Number)		0.83 MACH	
Maximum Cruise Altitude		45,000 ft	
*Mach 0.80, (NBAA IFR fuel reserves, ISA conditions, 8 passengers (225 lbs. each) and standard BOW)			
WEIGHTS		DIMENSIONS	
Maximum Takeoff	40,600 lbs	Length	68.6 ft
Maximum Landing	34,150 lbs.	Overall Wingspan	69.00 ft
Maximum Zero Fuel	28,200 lbs.	Height	20.3 ft
Basic Operating Weight	24,800 lbs	Seating	9
Maximum Payload	3,400 lbs		
Maximum Fuel	14,150 lbs		

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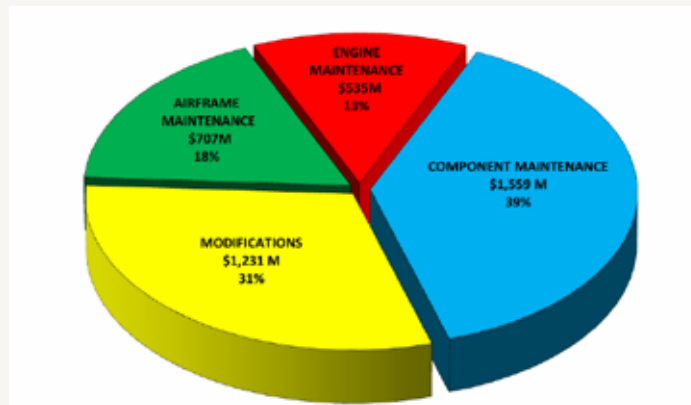
Bombardier Challenger 300/350 In-Service Fleet



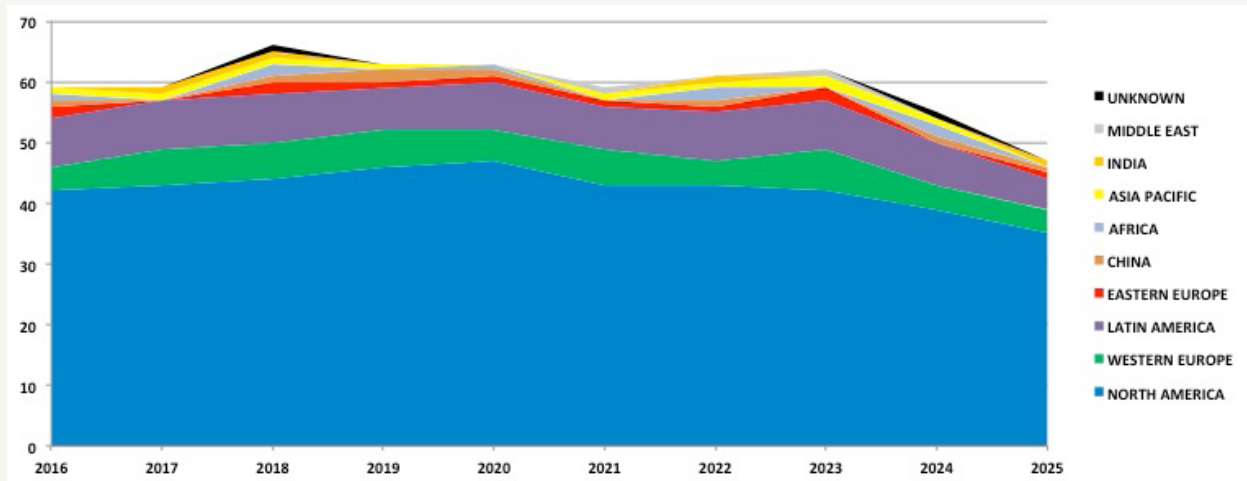
Challenger 350 Deliveries To Date 2015



Challenger 350 10-Year MRO Market Demand



Challenger 350 Forecast Deliveries by Regions



Source: Penton's Aviation Week Network 2016 Business Aviation Fleet & MRO Forecast. For more information, please see <http://aviationweek.com/2016forecast-business>