

# BOMBARDIER

## BACKGROUNDER

### CHALLENGER 605

**Background:** In service since January 2007, the *Challenger 605* business jet features a new avionics suite, a redesigned, more spacious interior and larger, relocated windows. Building on its reputation for outstanding reliability, dependability, comfort and value, the *Challenger 605* business jet succeeds the *Challenger 604* aircraft.

**Description:** The *Challenger 605* jet features the widest cabin of any large-size business jet available today – eight feet two inches wide (2.49 m) – and has comfortable stand-up room of six feet one inch (1.85 m). Its unmatched cabin width makes this aircraft well suited to a variety of other roles including air ambulance, flight inspection, electronic systems training and maritime surveillance. The *Challenger 605* jet operates at a maximum cruise speed of Mach 0.82 (470 knots; 541 mph; 870 km/h) and its widebody cabin provides corporate and government leaders with a quiet and comfortable area to work and rest.

The *Challenger 605* jet's flight deck features the Rockwell Collins Pro Line 21 avionics suite that supports real-time satellite graphical weather and electronic charts to enhance situational awareness and reduce pilot workload. The integrated avionics package includes four 10-inch by 12-inch (25.4-cm by 30.5-cm) vertically aligned next generation LCD screens, increasing the display area by 55 per cent over the *Challenger 604* aircraft flight deck.

In addition to an enhanced cockpit, operators can benefit from a wide selection of cabin configurations, allowing them to choose a *Challenger 605* aircraft interior that meets their particular requirements. The *Challenger 605* jet showcases a state-of-the-art Ethernet-based Cabin Electronic System (CES), as featured in *Bombardier Global* aircraft. This revolutionary digital system provides office environment and entertainment options, including 18-inch (45.7-cm) bulkhead-mounted cabin monitors, LCD touch-screen passenger control units, dual DVD/CD player, high-speed Internet and on-board LAN that supports file sharing.

**Optional equipment includes BEVS/HGS:** The *Bombardier Enhanced Vision System (BEVS)* provides pilots with significantly improved situational awareness and the ability to observe runway lights and the runway environment in difficult operating conditions, such as low visibility and or darkness. BEVS also enhances safety by helping to identify runway incursions. The heart of the BEVS is the second-generation SureSight<sup>®</sup> CMA-2600i Integrated Sensor System from CMC Electronics, integrated with a Rockwell Collins Head-up Guidance System (HGS<sup>®</sup>) used as a head-up display.

An increased payload capacity of 200 pounds (91 kg) provides customers with additional flexibility to either add more options, one more passenger or 200 pounds (91 kg) of fuel, while retaining the range and reliability expected from the *Challenger* aircraft family.

Service and maintenance for the *Challenger* aircraft fleet is available at six Bombardier-owned service centers in the United States and from a worldwide network of independently managed authorized service facilities.

**Highlights:**

Max. cruise speed:	Mach 0.82 (541 mph; 870 km/hr)
Max. range:	4,022 NM (7,491 km) 5 pax
Max. altitude:	41,000 feet (12,497 m)
Passengers:	9-12

**Milestones\*:**

Program launch:	Nov. 8, 2005
First flight:	Jan. 22, 2006
Certification:	Oct. 5, 2006 Transport Canada (TC) Oct. 20, 2006 Federal Aviation Administration (FAA) Oct. 24, 2006 European Aviation Safety Agency (EASA)
First delivery:	January 2007
Total <i>Challenger 600</i> series aircraft manufactured:	847 (as of April 30, 2010)

\*Aircraft manufactured include all *Challenger 600* series aircraft manufactured by Bombardier Aerospace that have received their Certificate of Airworthiness. Backgrounders reflect number manufactured to end of last reported fiscal quarter.

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SureSight® is a registered trademark of CMC Electronics, and Esterline company.

HGS® is a registered trademark of Rockwell Collins Inc.

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