



Typical costs of ownership based on outright purchase.

The Bombardier Challenger 605 is a super mid-sized private jet that claims to match the operating costs of small aircraft. It can achieve a high speed of 870 km/h (470 kts) or 785 km/h (424 kts) for long range cruise, and has a maximum range of 4,000 nautical miles (7,408 km). With a cabin length of 25 feet, 7 inches (7.80 m), it can accommodate 10 passengers in a standard configuration.

Cost of Ownership (Typical costs based on outright purchase)

A new Bombardier Challenger 605 sells for approximately \$27m. Used 605s are currently selling for about \$15m for 2008 vintage aircraft.

Fixed Costs per Year (Typical costs)

The fixed costs of the Bombardier Challenger 605 primarily consist of crew member salaries and benefits (\$400,400), hangar costs (\$59,900), insurance (hull \$31,023, single limit liability \$12,500), recurrent training (\$66,800), and aircraft modernization (\$33,333). Other costs in the fixed cost figure of \$724,861 include refurbishing, computer maintenance program, navigation chart service and weather service. The details are shown in the table below:

Item	Costs
Crew Salaries - Captain	\$138,000
Crew Salaries - Co Pilot	\$95,000
Crew Salaries - Flight Attendant	\$75,000
Crew Salaries - Benefits	\$92,400
Hangar - Typical	\$59,900
Insurance - Hull	\$31,023
Insurance - Single Limit Liability	\$12,500
Recurrent Training	\$66,800
Aircraft Modernization	\$33,333
Navigation Chart Service	\$15,205
Refurbishing	\$94,500
Computer Maintenance Program	\$10,500
Weather Service	\$700
Flight Ops (inc plans, handling & permit requests)	\$35,000
Total Fixed Cost per Year	\$759,861

Variable Costs per Year (Typical)

The variable costs of operating the Challenger 605 are dependent upon hours operated and nautical miles travelled. Assuming 175,000 nautical miles and 423 hours per year, owners should anticipate variable expenses of \$1,515,813 annually. The largest of these expenses (about 65% of the total variable cost) is fuel costs, which are estimated at \$2,346 per hour out of a total variable cost of \$3,583 per hour. The 605 is estimated to use 329 gallons of fuel per hour.

The table below shows the breakdown of the variable costs per hour:

Item	Costs
Fuel	\$2,345.77
Maintenance Labour	\$111.60
Parts Airframe/Engine/Avionics	\$138.01
Engine Restoration	\$438.20
Miscellaneous Expenses - Landing/Parking	\$55.10
APU Allowance	\$43.82
Crew Expenses	\$295.23
Supplies/Catering	\$155.75
Total Variable Cost per Hour	\$3,583.48

The decision to purchase a jet outright rather than a jet card or fractional ownership is one that should be made carefully after considering not only the costs, but also how you will use the jet and whether it will meet most of your flying requirements.