

# Eclipse Jet Performance and Specifications

## PERFORMANCE

TAKEOFF DISTANCE TO 50 FT SEA LEVEL, ISA TO 50 FT (15 M) @ MGTOW	2,394 FT	730 M
LANDING DISTANCE, 4 PAX, NBAA IFR RESERVE	2,342 FT	714 M
RATE OF CLIMB - 2 ENGINES <sup>1</sup>	3,456 FT / MIN	1,053 M / MIN
RATE OF CLIMB - 1 ENGINE <sup>2</sup>	1010 FT / MIN	308 M / MIN
TIME TO CLIMB - 41,000 FT (12,497 M)	29 MIN	29 MIN
TAKEOFF AT 5,000 FT (1,524 M) AT ISA + 15 °C	3,843 FT	1,171 M
SINGLE ENGINE TAKEOFF CLIMB AT 5,000 FT (1,524 M) <sup>3</sup> AT ISA + 15 °C	697 FT / MIN	212 M / MIN
MAX CRUISE SPEED (TAS)	375 KT	695 KM / HR
V <sub>SO</sub>	73 KT	135 KM / HR
V <sub>MCA</sub> <sup>4</sup>	NOT APPLICABLE	
V <sub>MCG</sub>	60 KT	111 KM / HR
V <sub>MO</sub> / M <sub>MO</sub>	285 KEAS	0.64 MACH
MAXIMUM ALTITUDE	41,000 FT	12,497 M
SINGLE ENGINE SERVICE CEILING	35,000 FT	10,668 M
RANGE - MAX NBAA IFR 100 NM ALTERNATE, 4 OCCUPANTS, 200-LB (90-KG) PILOT, THREE 170-LB (77-KG) PASSENGERS	1,125 NM	2,084 KM
RANGE - MAX IFR 45-MINUTE RESERVE, 4 OCCUPANTS, 200-LB (90-KG) PILOT, THREE 170-LB (77-KG) PASSENGERS	1,300 NM	2,408 KM

- 1 Flaps up, gear up, sea level, isa, max takeoff power
- 2 Flaps up, gear up, sea level, isa, max takeoff power + automatic power reserve
- 3 Flaps up, gear up, max takeoff power + automatic reserve
- 4 The V<sub>MC</sub> speeds of the Eclipse 500 do not exist because they are less than V<sub>SO</sub>

Data subject to change.

## EXTERIOR DIMENSIONS

LENGTH	33.5 FT	10.2 M
WINGSPAN	37.9 FT	11.6 M
HEIGHT	11.0 FT	3.4 M

## INTERIOR DIMENSIONS

LENGTH	148 IN	376 CM
HEIGHT (MAX)	50 IN	127 CM
WIDTH (MAX)	56 IN	142 CM

## WEIGHTS

MAXIMUM RAMP	6,034 LB	2,737 KG
MAXIMUM TAKEOFF	6,000 LB	2,722 KG
MAXIMUM LANDING	5,600 LB	2,540 KG
EMPTY	3,634 LB	1,648 KG
FUEL CAPACITY	1,698 LB / 251 GAL	770 KG / 950 L
USEFUL LOAD	2,400 LB	1,089 KG

## ENGINES

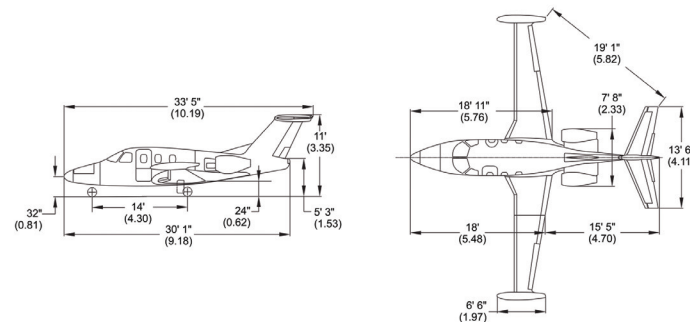
2 PRATT & WHITNEY CANADA	PW610F TURBOFANS	
TAKEOFF THRUST AT SEA LEVEL ISA + 15 °C	900 LBF (EACH)	4.00 KN (EACH)

## ACCOMODATIONS

SEATS	6 MAX
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## PRESSURIZATIONS

SEA LEVEL CABIN TO	21,500 FT	6,533 M
CABIN ALTITUDE AT 41,000 FT	8,000 FT	2,438 M



FLY SAFE. FLY FAST. FLY AN ECLIPSE JET.

The Eclipse Jet did more than redefine a class. It defined a new one. The light jet class of aircraft was created because the combination of weight, power, and speed that the Eclipse Jet brought into aviation had never before been seen. And the sleek new all-leather interior appointments of the Eclipse Jet redefine style.

What does this mean for you? It means that you can go where you want, when you want, and fly lighter and cheaper than in any other jet aircraft. And you can do this while still enjoying a jet's capability to fly safely over any inclement weather that may pass your way.



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**THE ECLIPSE JET.**  
UNLIKE ANYTHING ELSE IN THE SKY.

Once upon a time, there was a big problem in the private air travel industry. Private jet travel was reserved for the ‘elite.’ Eclipse Aerospace has changed all that. The way we saw it, why shouldn’t the convenience, performance, and safety of private jet travel be available to more people? People, for example, like you?

Our answer was a twin-engine jet that is affordable, easy to own, easy to operate, and offers performance capabilities previously found only in military and commercial aircraft.

Now introducing the Eclipse Jet: the last step on your long journey to find the perfect aircraft. The Eclipse, with its advanced, high-tech features usually seen in aircraft costing millions more, is built using innovative techniques that drive quality up and manufacturing costs down. Complete with the Avio Integrated Flight Management System (IFMS) and XM weather integration, a plush cabin with all-leather seating, superior insulation for an unbelievably quiet ride, and an IFR range of 1,125 nautical miles, the Eclipse Jet is defined by safety, comfort, and convenience.

Not only less expensive than any other twin-engine jet to buy, the fuel-efficient Eclipse Jet is also the least expensive jet to own and operate. The Eclipse Jet puts the practical benefits and sheer exhilaration of jet travel within the means of more people and companies than ever before.

**FLY IN RELAXING COMFORT**

Thoughtful, ergonomic interior appointments create a peerlessly beautiful cabin with the fit, finish, and attention to detail that characterize the world’s finest aircraft. The cabin is a tasteful blend of beauty, comfort, and practicality. We use superior acoustic and thermal insulation to make the cabin of the Eclipse Jet extremely quiet, allowing passengers to easily carry on a quiet conversation while in flight.

**MYTH: JETS ARE HARD TO FLY**

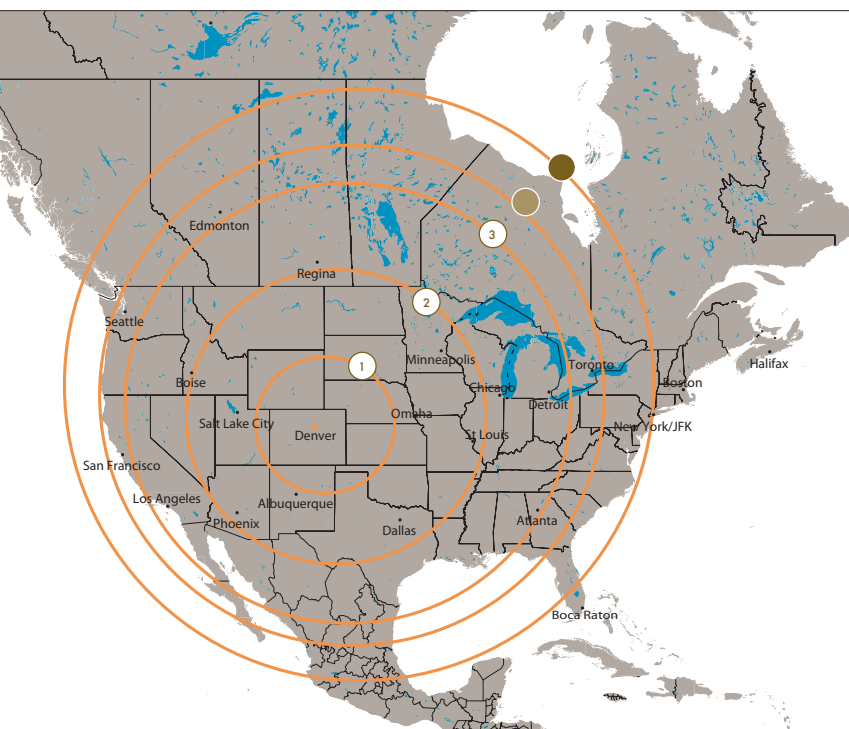
A surprising truth is that jets are easier and safer to fly than you may have been led to believe. With the Eclipse Jet, you enjoy twin-engine performance with an unmatched center line thrust design, making single-engine operation a non-event. Experienced pilots will marvel at the sophistication of the Avio IFMS. Those new to jet aircraft will be amazed at how easy and intuitive the IFMS is to use. But mostly you’ll love how it makes the Eclipse Jet effortlessly fun to fly.

**AN ECLIPSE JET WILL HAVE A HUGE IMPACT ON YOUR LIFE. NOT THE PLANET.**

We built the Eclipse Jet with an eye to the environment. It’s extremely quiet—a full 40 dB quieter than the world’s most stringent Stage 4 noise requirements. Smoke is released at a rate 50 times lower than regulatory limits. The plane is assembled using friction stir-welding, a green manufacturing process that produces no fumes. It’s engine fire suppression system, PhostrEx™ is the first Halon alternative agent to be approved by the EPA and FAA in more than 50 years, and conforms to international treaties protecting the earth’s atmosphere.

**MAXIMUM PERFORMANCE. MINIMUM FUEL BURN.**

The Eclipse Jet operates more efficiently than any comparable jet at any altitude. Extremely fuel-efficient at cruising altitudes, at lower altitudes it provides fuel-burn rates you’d associate with a turboprop instead of a jet. Just check the numbers:



Map assumes 85% annual probability real-world winds, long-range cruise with one pilot (200 lb), and three passengers (170 lb each).

- ① 1 HOUR
- ② 2 HOURS
- ③ 3 HOURS
- MAX NBAA
- MAX IFR

Data subject to change

**750 NM TRIP**

	BLOCK FUEL			FLIGHT TIME**
	POUNDS*	GALLONS*	GPH	
FL200	1333	197	67.2	2:56
FL250	1191	176	61.7	2:51
FL300	1086	160	57.7	2:47
FL350	1002	148	56.4	2:38
FL400	945	140	58.3	2:23

Assumes max gross takeoff weight, long range cruise, no winds, FAA 45-minute reserves.

\* Block fuel includes taxi, takeoff, and flight fuel.  
\*\* Flight time is measured from takeoff to touchdown

With fuel prices more of a concern than ever, doing the math is simple—you want the jet with the best fuel efficiency. That makes the Eclipse Jet the only way to fly.

**FLY SAFE, FLY FAST**  
**FLY AN ECLIPSE JET**