

# ECLIPSE 550<sup>®</sup> Features



## Standard Features of the Eclipse 550 Jet



### Twin-Engine Performance. Single Engine Economics.

When you purchase a jet aircraft, you want to go fast, climb fast, and have the option of landing on short runways. Whether you need to leave from an airport high the mountains or arrive at a short field, the Eclipse 550 can get you there safely. Couple that with the flexibility of cabin configuration, the Eclipse can meet a very wide variety of mission profiles to keep you and your schedule moving.

### Eclipse Jet Performance Features

**41,000 ft Service Ceiling:** Flying your aircraft at 41,000 ft keeps you above the weather, so the plane stays above clouds, rain, icing and other detriments to safety and efficiency while flying. Increased altitude will increase the range of the aircraft: the fuel efficiency at 41,000 ft is nearly 10 gallons per hour better than at 37,000ft.

**430 mph / 375 ktas:** The Eclipse Jet can maintain a maximum cruise speed of 430 mph (375 ktas), allowing rapid travel between locations. The two P&WC 610F engines on the Eclipse Jet produce 900 lbs of thrust each, for a total of 1,800 lbs of thrust on a jet whose maximum takeoff weight only 6,000 lbs.

**1,125 nm Range:** The Eclipse's range (Max NBAA IFR 100 nm alternate, 4 occupants) fits 70% of all general aviation flights according to a joint study conducted by GAMA and NBAA (fewer than 750 nm, three or fewer passengers). Rather than wasting money flying empty seats from one meeting to the next, the Eclipse Jet maximizes dollars spent on corporate travel.

**RVSM:** Reduced Vertical Separation Minimums creates six additional flight levels between FL290 and FL410. According to the FAA, this 'enhances aircraft operating efficiency by making more fuel / time efficient flight levels available; enhances air traffic control flexibility and provides the potential for enhanced enroute airspace capacity.'

**Fuel Consumption:** The Eclipse Jet is the most fuel-efficient twin-engine jet on the planet, consuming a mere 48-59 gallons of fuel per hour in flight. This amazing performance indicator means that you can fly 430 mph at only twice the fuel burn as a large SUV traveling on the interstate.

**Engines:** The PW610F turbofan engine has proven to be a major catalyst in creating a new era of business aviation. Specially designed for point-to-point travel in a new generation of light and very light jets, this innovative engine offers outstanding performance together with Pratt & Whitney of Canada's trademark dependability.

### Performance by Numbers

Max Cruise Speed:	375 kt
NBAA IFR Range w/ 4 Occupants:	1,125 nm
Max Altitude / Ceiling:	41,000 ft
Cruise Fuel Flow:	48 - 59 gph
Available payload w/ Max Fuel:	636 lbs
Takeoff Distance:	2,433 ft
Landing Distance:	2,790 ft
Time to Climb to 41,000 ft:	29 min
All Engine Rate of Climb:	3,424 fpm
One Engine Inop. Rate of Climb:	989 fpm
One Engine Inop. Service Ceiling:	35,000 ft

### Want to Know More About the Eclipse Jet?

To learn more about the Eclipse Jet, visit our website at [www.ECLIPSE.aero](http://www.ECLIPSE.aero). Want to speak with a sales representative about purchasing an Eclipse Jet? Call us toll-free at 877.375.7978 or email [sales@eclipse.aero](mailto:sales@eclipse.aero).

## Eclipse Jet Performance Specifications

TAKEOFF DISTANCE TO 50 FT SEA LEVEL, ISA TO 50 FT (15 M) @ MGTOW	2,433 FT	742 M
LANDING DIST. SEA LEVEL, ISA @ 4,600-LB (2,087-KG) LANDING WEIGHT	2,790 FT	850 M
RATE OF CLIMB - 2 ENGINES <sup>1</sup>	3,424 FT / MIN	1,044 M / MIN
RATE OF CLIMB - 1 ENGINE <sup>2</sup>	989 FT / MIN	301 M / MIN
TIME TO CLIMB - 35,000 FT (10,688 M)	22 MIN	22 MIN
TAKEOFF AT 5,000 FT (1,524 M) AT ISA + 15°C	3,881 FT	1,183 M
SINGLE ENGINE TAKEOFF CLIMB AT 5,000 FT (1,524 M) <sup>3</sup> AT ISA + 15°C	705 FT / MIN	215 M / MIN
MAX CRUISE SPEED	375 KT	694 KM / HR
V <sub>SO</sub>	69 KT	128 KM / HR
V <sub>MCA</sub> <sup>4</sup>	NOT APPLICABLE	
V <sub>MCG</sub> <sup>4</sup>	NOT APPLICABLE	
V <sub>MO</sub> / M <sub>MO</sub>	285 KT / 0.64 MACH	528 KM / HR / 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	1,125 NM	2,084 KM
RANGE - MAX IFR 45-MINUTE RESERVE, 4 OCCUPANTS	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 Jet do not exist because they are less than V<sub>SO</sub>

### 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	900 LBF (EACH)	4.00 KN (EACH)
ISA + 15°C		

### 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

