

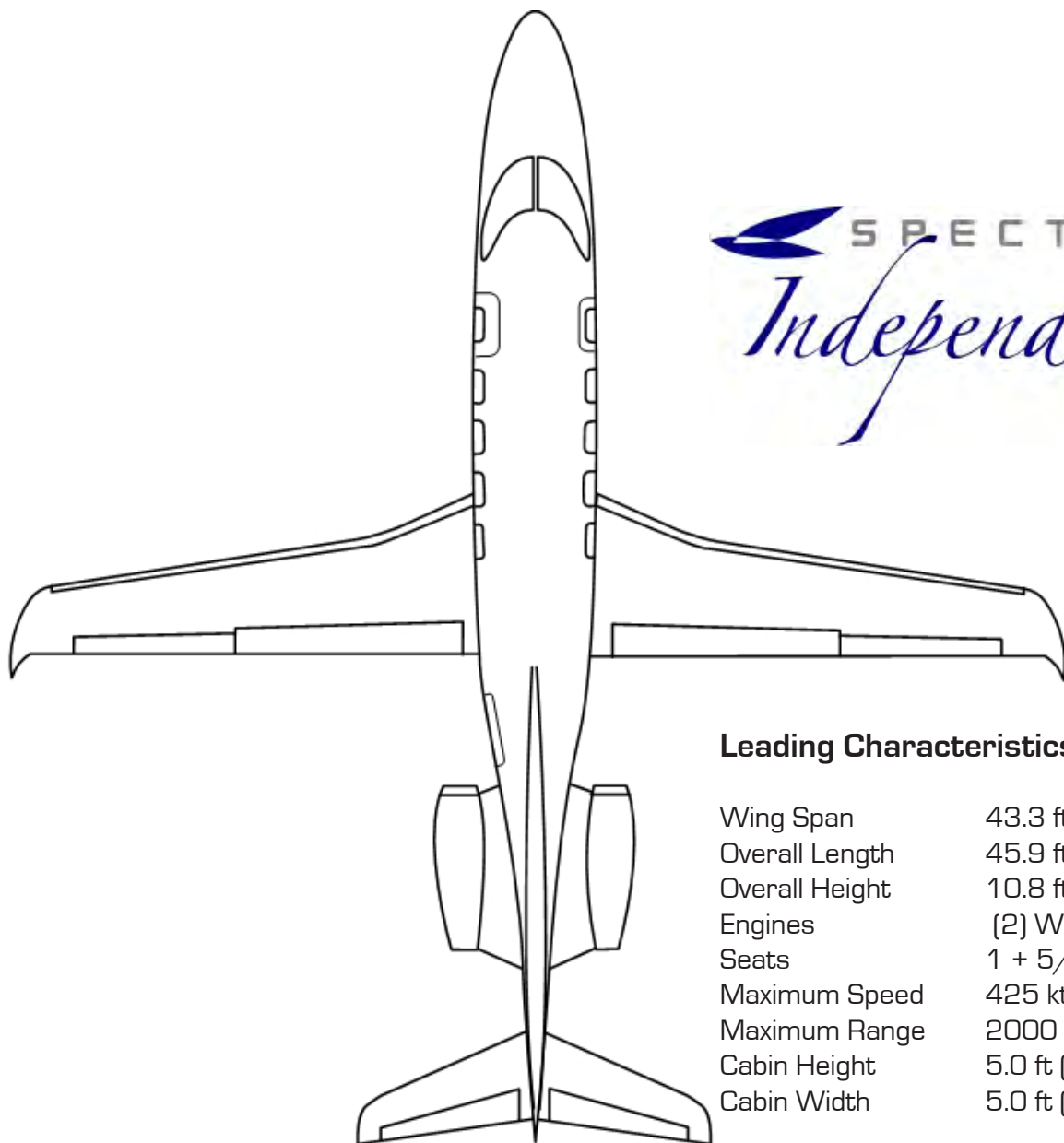


Independence
S.33

www.spectrum.aero

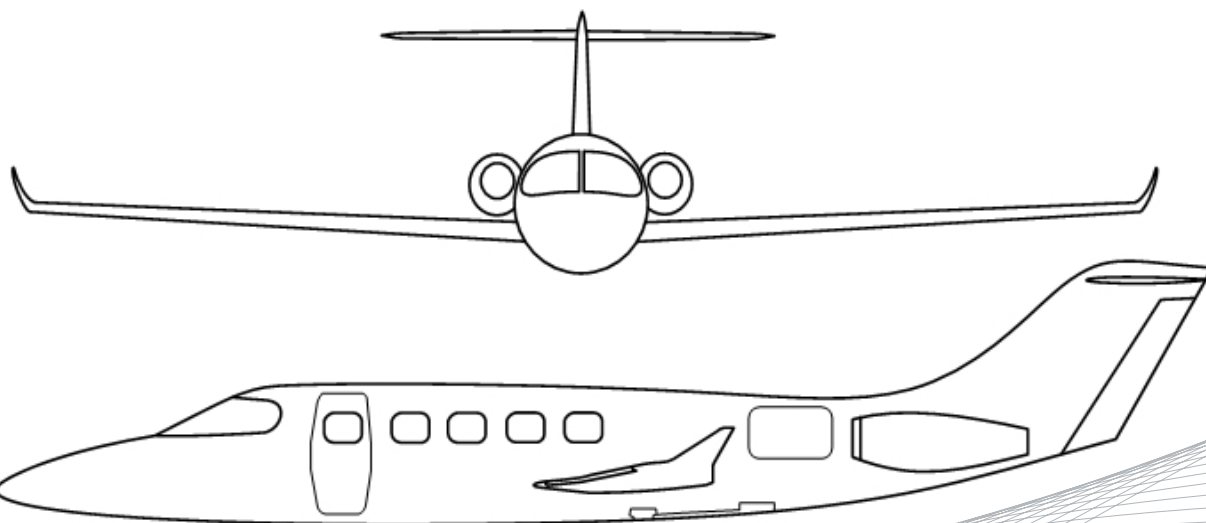
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Spectrum Aeronautical LLC 2036 Palomar Airport Road Carlsbad, CA 92011



Leading Characteristics

Wing Span	43.3 ft (13.2 m)
Overall Length	45.9 ft (16.5 m)
Overall Height	10.8 ft (4.1 m)
Engines	(2) Williams Int'l FJ-33
Seats	1 + 5/7
Maximum Speed	425 kts (787 kph) (.74M)
Maximum Range	2000 nm (4170 km)
Cabin Height	5.0 ft (1.5 m)
Cabin Width	5.0 ft (1.5 m)





General

Price (2009 USD)	\$3.945 million
Seating (req'd crew + exec seating/total passenger seats)	1 + 5/7
Engines	(2) Williams Int'l FJ-33-4A
Thrust	1,750 lbs ea/3,500 lbs total
Time between overhaul (TBO)	3,500 hours
Cabin Height x Width	5.0 ft x 5.0 ft

Weights

Maximum Ramp Weight	7,535 lbs.	3,418 kg.
Maximum Gross Takeoff Weight	7,500 lbs.	3,402 kg.
Maximum Landing Weight	6,818 lbs.	3,093 kg.
Empty Weight	3,850 lbs.	1,746 kg.
Basic Operating Weight (includes 1 pilot @ 200 lbs.)	4,050 lbs.	1,837 kg.
Useful Load (MRW - EW)	3,685 lbs.	1,672 kg.
Maximum Fuel Capacity	2,730 lbs.	1,238 kg.
Payload with Max Fuel (based on EW)	955 lbs.	433 kg.
Fuel with Max Payload	1,385 lbs.	628 kg.
Maximum Zero Fuel Weight	6,150 lbs.	2,790 kg.
Maximum Payload (includes pilot)	2,300 lbs.	1,043 kg.

Performance

Maximum Cruise	425 ktas	787 kph
Maximum Cruise (Mach)	0.74M	0.74M
Maximum Altitude	45,000 ft	13,716 m
Stall Speed (flaps) V _{SO}	76 kts	141 kph
Stall Speed (clean) V _{S1}	90 kts	167 kph
Max Range (IFR reserves, 100 nm alternate)	2,000 nm	3,704 kph
Max Range (NBAA profile, 1+4)	1,750 nm	3,241 km
Initial Climb, MTOW (all engines)	5,000 fpm	1,524 mpm
Time to FL450 (MTOW)	22 minutes	22 minutes
Balanced Field Length (BFL)	<3,000 ft	<914 m





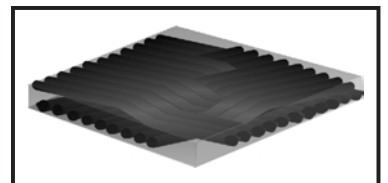
EXCEPTIONAL STRENGTH AND DURABILITY

Spectrum's innovative airframe reduces the need for secondary fasteners such as rivets and bolts, allowing superior weight savings, damage tolerance and ease of field repair. Additionally, fi-beX[®] is resilient to corrosion and fatigue that can plague aluminum airframes.

The result of decades of research, fi-beX[®] has been proven in successful aerospace applications for more than fifteen years. fi-beX[®] brings unprecedented capability to Spectrum's family of aircraft. A thin layer of fi-beX[®] yields amazing strength, adding supplemental internal structure in strategic locations and patterns boosts overall strength with only minimal additional weight.

Operating efficiency and low emissions—without sacrificing size or performance.

It's Spectrum.



fi-beX[®] - Aerospace grade carbon fibers embedded in Spectrum's proprietary advanced polymers create a light weight matrix that provides exceptional strength and durability.



Independence

S.33

REDEFINING Light Jet EFFICIENCY

	INDEPENDENCE S.33	Eclipse 500	Phenom P-100	CITATION Mustang	Citation CJ2	Honda* jet	KING AIR B200
300 nm							
Flight Time	0 + 53	0 + 58	0 + 58	1 + 00	0 + 49	0 + 52	1 + 07
Fuel Used	582	456	809	669	898	652	711
Altitude	FL350	FL350	FL350	FL370	FL370	FL350	FL210
600 nm							
Flight Time	1 + 49	1 + 48	1 + 52	1 + 56	1 + 35	1 + 40	2 + 13
Fuel Used	736	885	1294	1132	1458	1000	1324
Altitude	FL450	FL350	FL390	FL390	FL410	FL410	FL290
1,000 nm							
Flight Time	2 + 59	Insufficient	3 + 12	3 + 19	2 + 36	Insufficient	3 + 39
Fuel Used	1130	Range	1960	1715	2159	Range	2101
Altitude	FL450		FL410	FL410	FL430		FL290

Comparative profiles per NBAA missions; BCA May 2008
 4-Passengers; NBAA IFR Reserve Fuel; Maximum Continuous Cruise
 Flight time in hours + minutes; Fuel used in pounds
 Independence specifications are preliminary and subject to change
 *estimated

The Spectrum Independence S.33 is specifically designed to provide unprecedented operating efficiency.



While the Spectrum Independence S.33 is classified as a VLJ by weight category, it has the speed, range, cabin size and comfort to outperform aircraft in the light jet class. All while costing thousands less to operate. A 5 foot cabin and externally serviced rear lavatory sets the standard for light jet interior comfort, while providing performance and operating economics others can only dream of.





STYLE, COMFORT & UTILITY

LIGHT JET COMFORT

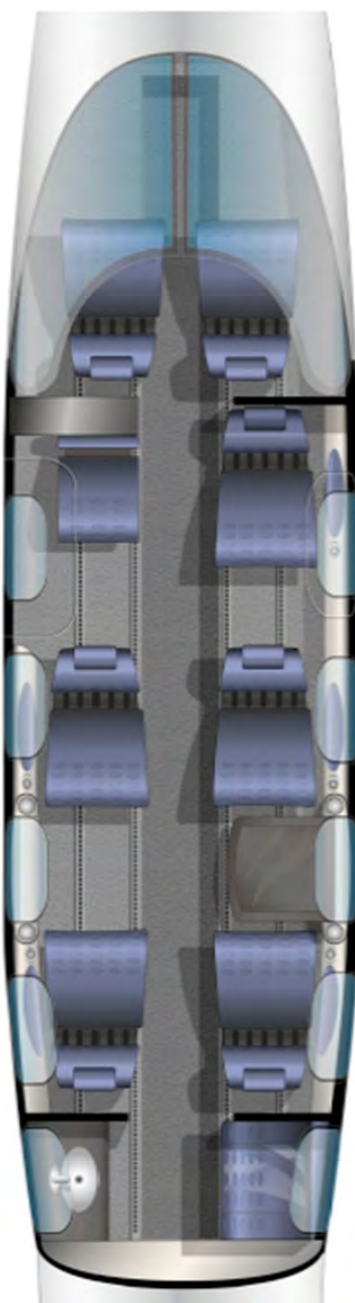
Business jet passengers demand and deserve an exceptional travel experience.

The S.33 provides an environment specifically designed to accomplish this goal with style, comfort and utility. From its well appointed interior and its 5' cabin height and width (the largest in class), to its wide seats and private aft-lavatory, you'll find the ultimate in passenger accommodations.

Make the most of your time onboard, or simply relax in quiet comfort. The Independence is elegantly appointed to meet all of your in-flight expectations.

- Storage/refreshment center
- Electronically tinted windows
- Externally serviced, flushing lavatory
- Dual zone climate control
- Cruise with a cabin altitude of 5,000' or less
- 5' cabin height and width
- Pilot plus 5 executive seating standard
- Plug-in stations for electronic equipment
- Rear club with exceptional legroom
- 70 cubic feet of external baggage space





S.33 SEATING ARRANGEMENT

THE ULTIMATE CABIN EXPERIENCE

The Independence cabin experience begins with comfortable seating and generous headroom. Its large windows, rear lavatory along with its quiet and smooth ride create an environment unmatched by any aircraft in its class.

The Independence provides 1+5/7 seating in its standard configuration. This is designed to provide an excellent balance between cabin comfort, operating efficiency and utility.

Independence also comes standard with a private, externally serviced flushing lavatory located in the rear of the cabin. Its robust luggage compartment provides 70 cubic feet of heated storage, with a maximum capacity of 500 pounds.

Independence: the ultimate in comfort, style and utility.



Light jet performance; VLJ economy.

Sink and lighted vanity configuration





YOUR NEW FRONT OFFICE

WELCOME TO THE FLIGHT DECK OF THE FUTURE

The Independence flight deck has been carefully crafted to serve both single pilot and two-crew operations. The S.33 offers “front office” comfort that is unmatched by any other aircraft in its class. Independence will have the following capabilities, and more.

- Four high resolution flight displays
- Dual redundant AHRS & ADC
- Dual digital audio panels
- Dual VHF digital COM transceivers
- Dual VOR/LOC/GS receivers
- Marker beacon receiver
- Dual GPS system,
- IFR & WAAS certified
- 3 axis autopilot, YD, alt. hold & alert
- Dual integrated FMS
- Electronic plates & charts
- Electronic checklist
- 3 Axis electric trim
- TCAS I or II
- Dual Mode S transponders
- TAWS class B or A
- Color weather radar & XM uplink
- Dual FADEC system
- RVSM & FIKI certification
- And more ...

At Spectrum, we know that the flight deck is the key to safe and effective pilot/aircraft interface. Our experienced flight deck design team sweats the details, so you won't have to.

Combining powerful capabilities with an ergonomic interface, the S.33 is ideally suited for single pilot operation. Part 135 and EASA Commercial operators will enjoy a robust set of equipment to meet and exceed requirements. The Independence flight deck provides the ease, safety and comfort required in today's (and tomorrow's) business jet operations.



SPECTRUM AIRCRAFT SERVICES AND MAINTENANCE

SERVICE YOU CAN COUNT ON

As a division of Spectrum Aeronautical, Spectrum Aircraft Services will provide a complete package of services, making ownership of your Freedom or Independence truly a unique experience.

SATISFACTION IS OUR GOAL

Initial capabilities include a worldwide network of factory and authorized service facilities organized in a multi-tiered structure as well as a dedicated organization for AOG support. Our goal is to keep our Customers flying by providing quality service at an affordable price.

Spectrum Services will also provide initial and recurrent pilot training in part by providing a full motion Level D simulator.

We're not stopping there. Additional services will be forthcoming to enhance your overall ownership experience.

PASSION FOR EXCELLENCE



MAINTENANCE

- FAA Part 145
- Factory and Factory Authorized
- Convenient locations

GROUND SUPPORT

- AOG Support Team
- Maximum Availability

TRAINING

- Initial Type Rating
- Recurrent Training

Independence
S.33



SPECTRUM CONTACT INFORMATION

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