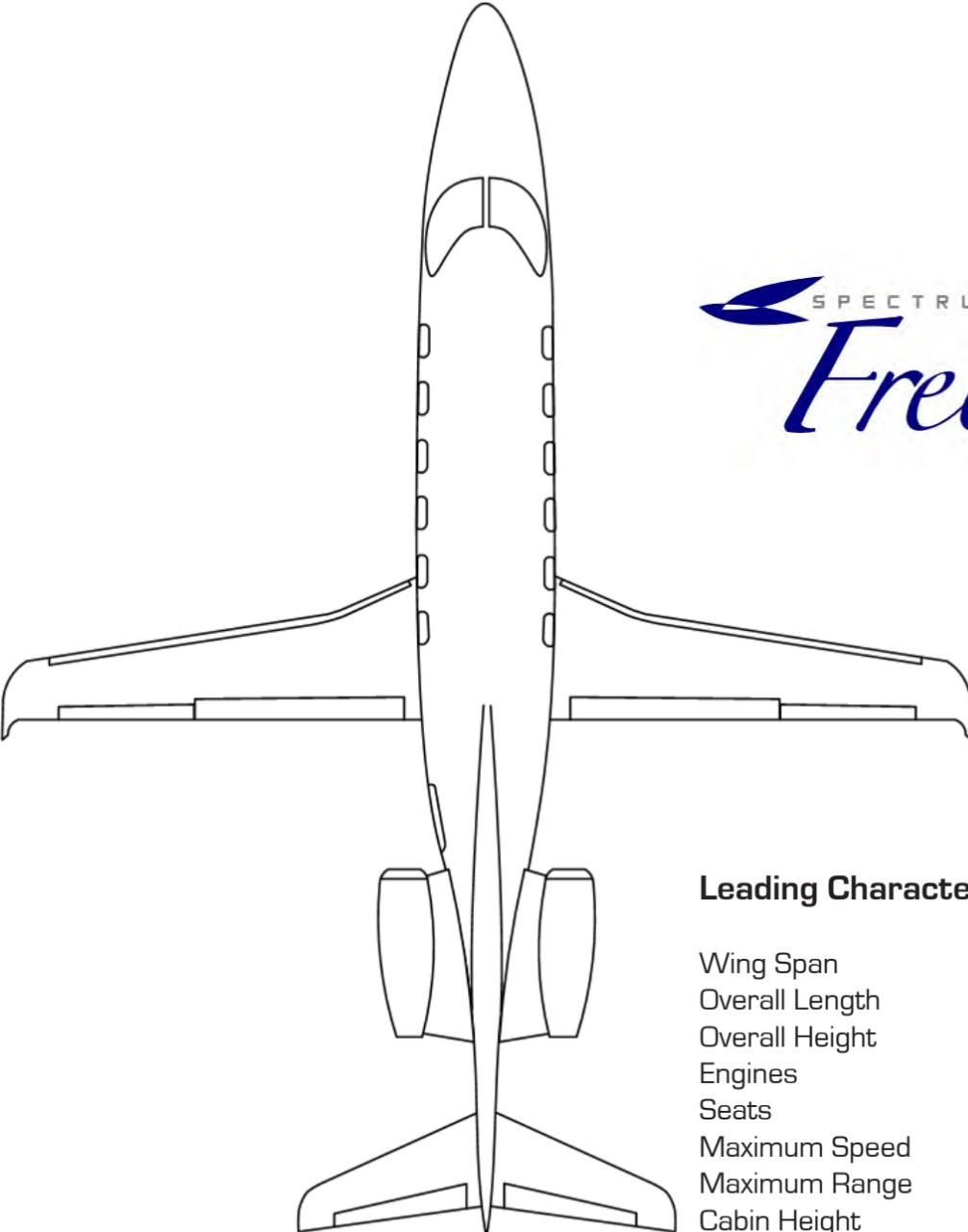




Freedom

S.40



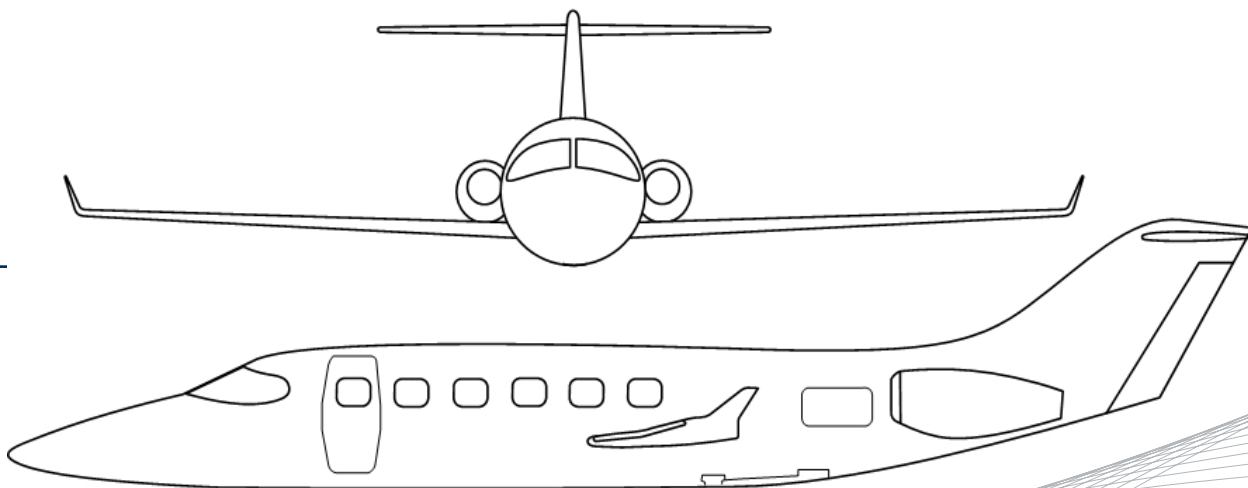


SPECTRUM
Freedom

Model S.40

Leading Characteristics

Wing Span	43.3 ft (13.2 m)
Overall Length	54.0 ft (16.5 m)
Overall Height	13.3 ft (4.1 m)
Engines	(2) GE Honda HF-120
Seats	1 + 7/9
Maximum Speed	440 kts (815 kph) (.77M)
Maximum Range	2250 nm (4170 km)
Cabin Height	6.0 ft (1.8 m)
Cabin Width	6.0 ft (1.8 m)





SPECTRUM FREEDOM

Model Designation: S.40

General

Price (2009 USD)	\$6.795 million
Seating (req'd crew + exec seating/total passenger seats)	1 + 7/9
Engines	(2) GE-Honda HF-120 turbfans
Thrust	2,095 lbs. / 9319 N each
Time between overhaul (TBO)	5,000 hours
Cabin Height x Width	6.0 ft. x 6.0 ft.

Weights

Maximum Ramp Weight	9,580 lbs.	4,345 kg.
Maximum Gross Takeoff Weight	9,550 lbs.	4,332 kg.
Maximum Landing Weight	8,650 lbs.	3,924 kg.
Empty Weight	4,840 lbs.	2,195 kg.
Basic Operating Weight (includes 1 pilot @ 200 lbs.)	5,040 lbs.	2,286 kg.
Useful Load (MRW - EW)	4,740 lbs.	2,150 kg.
Maximum Fuel Capacity	3,600 lbs.	1,633 kg.
Payload with Max Fuel (based on EW)	1,140 lbs.	517 kg.
Fuel with Max Payload	2,340 lbs.	1,061 kg.
Maximum Zero Fuel Weight	7,240 lbs.	3,284 kg.
Maximum Payload (includes pilot)	2,400 lbs.	1,089 kg.

Performance

Maximum Cruise	440 ktas	815 kph
Maximum Cruise (Mach)	0.77M	0.77M
Maximum Altitude	45,000 ft	13,716 m
Stall Speed (flaps) V_{SO}	86 kts	159 kph
Stall Speed (clean) V_{S1}	102 kts	189 kph
Max Range (IFR reserves, 100 nm alternate)	2,250 nm	4,170 kph
Max Range (NBAA profile, 1+4)	2,030 nm	3,760 km
Initial Climb, MTOW (all engines)	4,650 fpm	1,417 mpm
Time to FL450 (MTOW)	20 minutes	20 minutes
Balanced Field Length (BFL)	3,300 ft	1,006 m





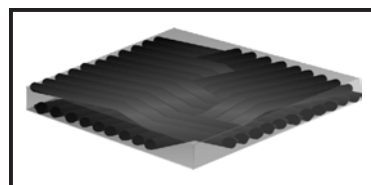
EXCEPTIONAL STRENGTH AND DURABILITY

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, fiBeX® is resilient to corrosion and fatigue that can plague aluminum airframes.

The result of decades of research, fiBeX® has been proven in successful aerospace applications for more than fifteen years. fiBeX® brings unprecedented capability to Spectrum's family of aircraft. A thin layer of fiBeX® 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.



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





SOPHISTICATED STYLE & LUXURY

FEEL FREE TO MOVE ABOUT THE CABIN

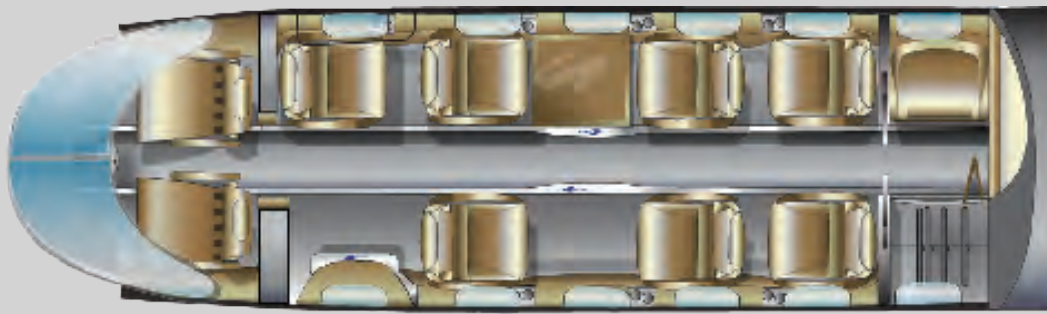
Business jet passengers demand and deserve an exceptional travel experience.

The S.40 provides an environment specifically designed to accomplish this goal with sophisticated style and luxury. From its convenient galley provisions, internal storage closets and “stand up” cabin height (the tallest in any mid-size jet), to its extra-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 Freedom is elegantly appointed to meet all of your in-flight expectations.

- Galley/refreshment center
- Electronically tinted windows
- Externally serviced, flushing lavatory
- Dual zone climate control
- Cruise with a cabin altitude of 5,000' or less
- “Stand up” cabin height
- 1+7 seating standard
- Plug-in stations for electronic equipment
- 15+ cubic feet of interior closet & storage
- 80 cubic feet of external baggage space

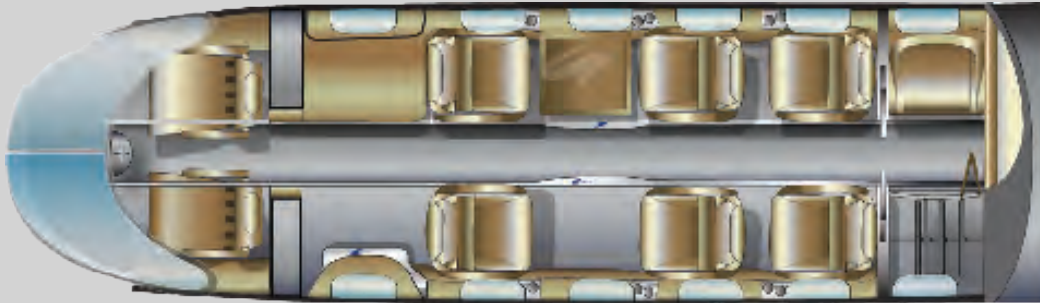




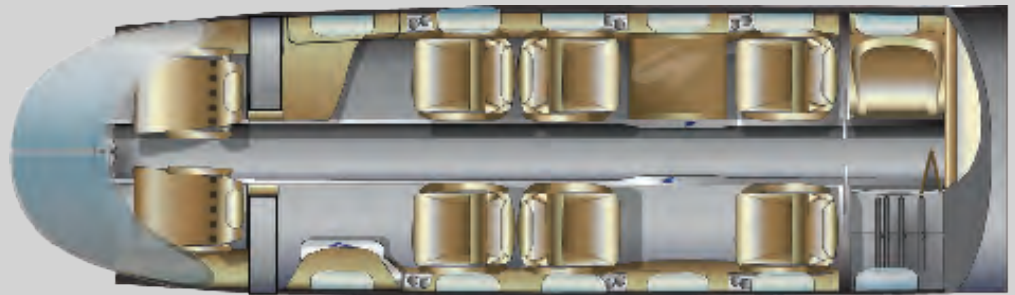
MAXIMUM SEATING



OPTIONAL SINK



FWD CLUB WITH GALLEY



AFT CLUB WITH SLIM-LINE STORAGE (available after initial deliveries)

CABIN VIEWS

FLOORPLAN FLEXIBILITY

The Freedom's baseline seating arrangement is the 'Maximum Seating' floor plan shown in the diagram above. This configuration is designed to provide an excellent balance between cabin comfort and operating efficiency.

For added cabin flexibility, a modular galley unit is available as an option, replacing the single rear facing seat. Subsequent to initial deliveries, a rear club configuration with a slim line galley will also be available.



Optional galley with forward club configuration



Freedom

S.40

REDEFINING MID SIZE EFFICIENCY

	FREEDOM S.40	GROB SPn	CITATION CJ4	CITATION XLS+	HAWKER 750	LEARJET 60XR	KING AIR B200
300 nm							
Flight Time	0 + 47	0 + 48	0 + 47	0 + 46	0 + 49	0 + 43	1 + 03
Fuel Used	706	866	1224	1245	1464	1274	886
Altitude	FL350	FL410	FL390	FL390	FL370	FL370	FL250
600 nm							
Flight Time	1 + 26	1 + 33	1 + 31	1 + 29	1 + 30	1 + 24	2 + 04
Fuel Used	1103	1487	2009	2094	2709	2033	1498
Altitude	FL410	FL410	FL410	FL410	FL370	FL410	FL290
1,000 nm							
Flight Time	2 + 32	2 + 33	2 + 27	2 + 26	2 + 24	2 + 17	3 + 37
Fuel Used	1654	2329	2966	3210	4376	3251	2265
Altitude	FL410	FL410	FL430	FL430	FL370	FL410	FL310

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
Freedom specifications are preliminary and subject to change

The Spectrum Freedom S.40 is specifically designed to provide unprecedented operating efficiency.



Combined with its "stand-up" cabin height and comfort of mid-sized jets, the Freedom is far more efficient than other aircraft in its class. The S.40 even competes with the economical operating costs of popular turbo-prop aircraft, while providing significantly faster speed. The Freedom's efficiency also translates into the lowest environmental emissions in the mid-size class.





YOUR NEW FRONT OFFICE

WELCOME TO THE FLIGHT DECK OF THE FUTURE

The Freedom's flight deck has been carefully crafted to serve both single pilot and two-crew operations. Featuring the Primus Apex avionics suite, the S.40 offers "front office" comfort that is unmatched by any other aircraft in its class. The Primus Apex system, which is already certified and flying, provides:

- 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.40 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 Freedom's 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



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