

Spectrum Freedom S-40

Manufacturer: Spectrum Aeronautical
Aircraft: Freedom S-40

Links: [Website](#) | [Press Releases](#)

General Price (2006 \$US)

\$6.20 million

Seating (Crew + Pax)

1 + 7/10

Engines

2 x GE Honda HF120

Time Between Overhaul

5000 Hrs

Thrust (Sea Level, ISA)

2095lbt / 9319N each (4190lbt / 18638N Total)

Dimensions (US Units | Metric)

Wing Span

43.3 ft | 13.20 m

External Length

54.0 ft | 16.46 m

External Height

13.3 ft | 4.05 m

Max. Cabin Width

6.0 ft | 1.83 m

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Cabin Length (cabin divider to aft PB)

15.8 ft | 4.82 m

Overall Internal Length (PB to PB)

21.1 ft | 6.42 m

External Baggage

80.0 ft³ | 2.26 m³

Weights (US Units | Metric)

Max Ramp Weight

9580 lbs | 4345 kg

Max Gross Takeoff Weight

9550 lbs | 4332 kg

Max Landing Weight

8650 lbs | 3924 kg

Empty Weight

4840 lbs | 2195 kg

Basic Operating Wt (1-pilot, 200lbs)

5040 lbs | 2286 kg

Useful Load (MRW - EW)

4740 lbs | 2150 kg

Maximum Fuel Capacity

3600 lbs | 1633 kg

Payload with Max Fuel (Based on EW)

1140 lbs | 517 kg

Fuel with Max Payload

2340 lbs | 1061 kg

Maximum Zero Fuel Weight

7240 lbs | 3284 kg

Maximum Payload (includes pilot)

2400 lbs | 1089 kg

Performance (US Units | Metric)

Maximum Cruise

440 ktas | 815 kph

Maximum Cruise (Mach)

0.77 Mach | 0.77 Mach

Maximum Altitude

45000 ft | 13716 m

Stall Speed (Flaps): V

86 kts | 159 kph

Stall Speed (Clean): V

102 kts | 189 kph

Max Range (IFR, 100nm Alternate)

2250 nm | 4167 km

Max Range, 1+4 (IFR, 100nm Alternate)

2030 nm | 3760 km

Initial Climb, MTOW (all engines)

4650 fpm | 1417 mpm

Initial Climb, MTOW (one engine)

1500 fpm | 457 mps

Time to FL450 (MTOW)

20 min | 20 min

Engine Out Ceiling

36500 ft | 11133 m

Take Off Distance

< 3000 ft | < 915 m

Landing Distance

< 2700 ft | < 824 m

SPECIFICATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE PENDING CERTIFICATION
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