

Beech 1900D Passenger Configuration: Weight Statement

Beech 1900D

Design Weights

Max. Ramp Weight	17,230 lb.	7,815 kg.
Max. Takeoff Weight	17,120 lb.	7,766 kg.
Max. Landing Weight	16,765 lb.	7,605 kg.
Max. Zero Fuel Weight	15,165 lb.	6,879 kg.
Fuel Capacity	4,458 lb.	2,022 kg.

Weight Breakdown

Equipped Empty Weight *	10,590 lb.	4,803 kg.
1 pilot.....	200 lb.	91 kg.
Basic Operating Weight	10,790 lb.	4,894 kg.
Max. Payload	4,375 lb.	1,984 kg.
Useful Load	6,440 lb.	2,921 kg.

** Equipped Empty Weight includes typical optional equipment*

Specifications and Performance

Beech 1900D

Characteristics

Seating (Crew + Pax)	2 + 19
Wing Loading	54.7 lb./sq. ft.
Power Loading	6.63 lb./SHP

External Dimensions

Length	57.8 ft.	(17.62 m)
Height	15.5 ft.	(4.72 m)
Span	57.9 ft.	(17.64 m)

Engines

Manufacturer	2 P&WC
Model	PT6A-67D
Output	1,279 SHP
Inspection Interval	8,000 hrs

Weights

Max Ramp	17,230 lb.	(7,815 kg.)
Max Takeoff	17,120 lb.	(7,766 kg.)
Max Landing	16,765 lb.	(7,605 kg.)
Max Zero Fuel	15,165 lb.	(6,879 kg.)
Basic Operating*	10,790 lb.	(4,894 kg.)

Payload / Capacities

Max Payload	4,375 lb.	(1,984 kg.)
Useful Load	6,440 lb.	(2,921 kg.)
Max Fuel Capacity	4,458 lb.	(2,022 kg.)
(6.7 lb./US gal.)	665 US gal.	
Fuel w/max payload	2,065 lb.	(937 kg.)

* Includes typical options and two crew at 200lb each

Specifications and Performance (continued.)

Beech 1900D

Cabin Dimensions

Length*	25 ft 3 in.	(7.69 m)
Height	5 ft 11 in.	(1.80 m)
Width.....	4 ft 6 in.	(1.37 m)

Cabin Volume

Cockpit.....	103 cu. ft.	(2.92 cu. m)
Passenger Cabin	640 cu. ft.	(18.12 cu. m)

Total Crew/Passenger Volume 743 cu. ft. (21.04 cu. m)

Baggage Capacity

Internal - Heated, Pressurized 175 cu. ft. 1,630 lb. (4.96 cu. m/739 kg.)

Pressurization

Differential.....	5.0 PSI
Sea Level Cabin To (ft.)	11,052 ft.

**Excludes Pilots compartment and aft baggage compartment*

Specifications and Performance (continued.)

Beech 1900D

Airport Performance

Takeoff Field Length

Max. TO Wt., SL, ISA 3,813 ft. (1,162 m)

Max. TO Wt., 5,000 ft. elevation, 25°C 5,235 ft. (1,596 m)

Landing Distance

Max Landing Wt., SL, ISA 2,790 ft. (850 m)

V_{approach} 117 kt

Climb Performance (Max Takeoff Weight)

Time to Climb / Altitude 16 min / FL 200

All-engine Climb Rate, flaps up..... 2,615 fpm (797 m/min)

Engine-out Rate, T/O flaps 650 fpm (198 m/min)

Engine-out Gradient, T/O flaps 314 ft/nm (96 m/km)

Ceilings

Certified 25,000 ft. (7,620 m)

All Engine Service 33,000 ft. (10,058 m)

Engine-out Service 17,200 ft. (5,243 m)

Cruise Performance

High Speed Cruise

Speed 280 kt/322 mph (518 km/hr)

Fuel Flow 888 lb./hr. (403 kg./hr)

Altitude FL 200

Long Range Cruise

Speed 230 kt/264 mph (425 km/hr)

Fuel Flow 562 lb./hr. (255 kg./hr)

Altitude FL 250

Specifications and Performance (continued)

Maximum Range Performance (NBAA IFR reserves (w/100 nm alternate)

Maximum Payload with Available Fuel (4,375 lb. payload)

Range	316 nm	585 km
Average Speed	249 kt.	460 km/hr
Trip Fuel.....	1,056 lb.	479 kg.

Maximum Fuel with 19 Passenger Payload (3,800 lb. payload)

Range	527 nm	975 km
Average Speed	257 kt.	476 km/hr
Trip Fuel.....	1,636 lb.	742 kg.

Ferry (Zero payload)

Range	1,245 nm	2,304 km
Average Speed	274 kt.	507 km/hr
Trip Fuel.....	3,504 lb.	1,589 kg.

Mission Performance (19 passengers)

100 nm mission

Flight Time	0 hr. 24 min	
Trip Fuel.....	417 lb.	189 kg.
Flight Level.....	FL 150	

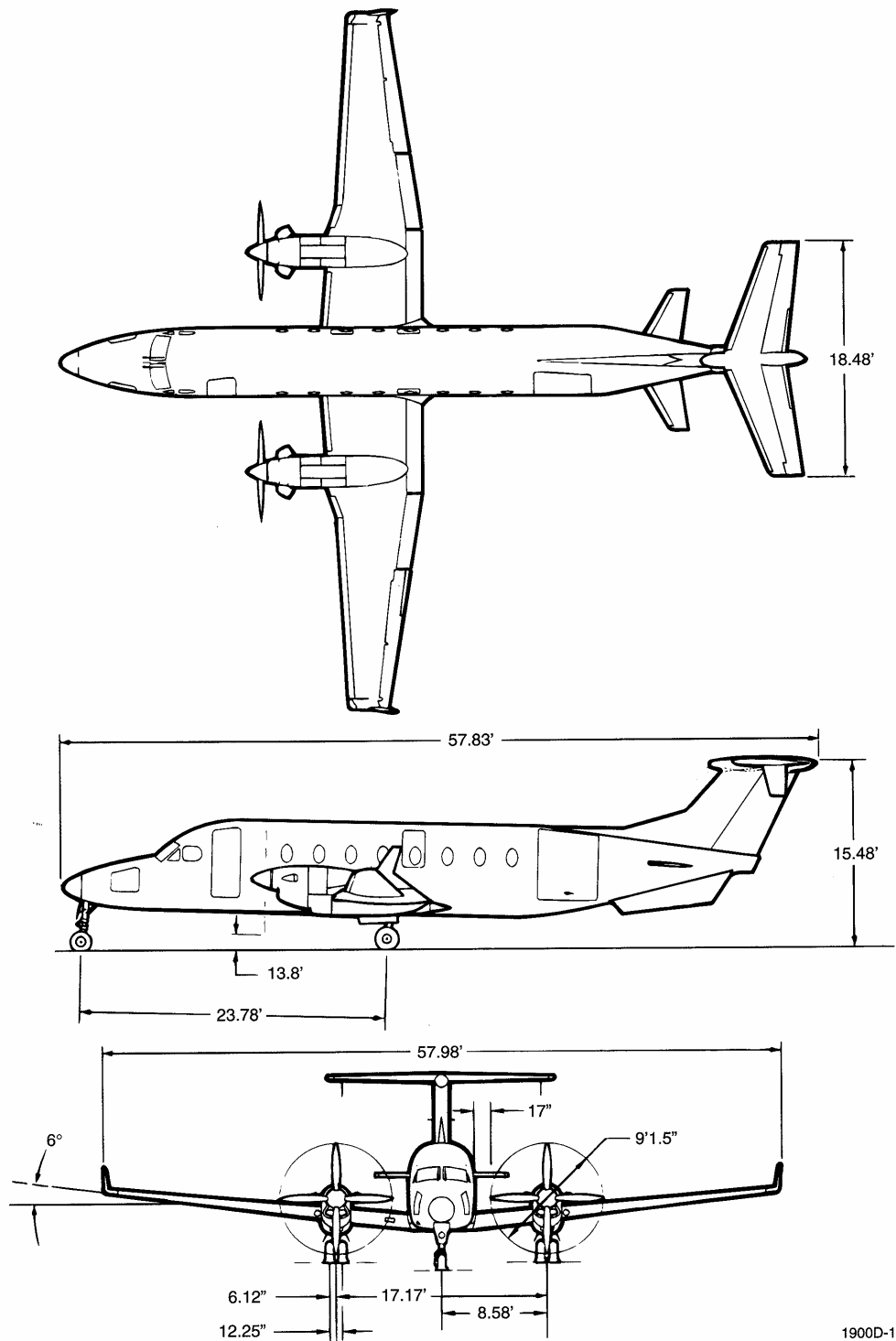
300 nm mission

Flight Time	1 hr. 10 min	
Trip Fuel.....	1,015 lb.	460 kg.
Flight Level.....	FL 230	

500 nm mission

Flight Time	1 hr. 56 min	
Trip Fuel.....	1,551 lb.	703 kg.
Flight Level.....	FL 250	

Aircraft Description



Airplane Dimensions