



# Dash 8-100 PF

## Package Freighter



**Dash 8-100<sup>PF</sup>**  
Package Freighter





# Regional Cargo Dream to Reality

The first Dash 8 aircraft was delivered in 1984. With its rugged and reliable design, the Dash 8-100 soon became a mainstay of the regional aircraft market. The Dash 8-100 Series is now out-of-production, but the model line continues with ongoing production of the Dash 8-400 Series. In total, approximately 1200 Dash 8 aircraft have been produced.

Many in the regional freight market have identified a niche for a cost-efficient regional package freighter that could carry upwards of 10,800 lbs / 4,900 kgs. With its operational cost efficiencies, the Dash 8-100 was an excellent choice.

Maximum Structural  
Payload:  
10800 lbs / 4900 kgs

Maximum Volume:  
1380 cubic ft. / 39 cu. m.

Cargo Door Opening:  
50 in. W x 60 in. H  
127 cm W x 152.4 cm H

Cargo Door Sill Height:  
40 in. / 101.6 cm

Maximum Range:  
1267 miles / 2039 kms

Cruise Speed:  
305 mph / 491 kmph

The Voyager engineering team went to work on designing a package freighter aircraft that could meet the needs of the regional market. With Voyager's Supplemental Type Certificate (STC) issued for the Dash 8-100 PF, Voyager secured a launch customer for the aircraft and the first aircraft was completed in April 2017.





## Dash 8-100 PF Block Time / Fuel

		Min Block Time Technique	Min Block Fuel Technique	Min Cost Technique
100 NM	Fuel-Litres	363	315	351
	Fuel-Gallons	96	83	93
	Time-Min.	31.7	40.5	32
200 NM	Fuel-Litres	654	523	590
	Fuel-Gallons	173	138	156
	Time-Min.	54.8	68.7	55.4
300 NM	Fuel-Litres	871	722	800
	Fuel-Gallons	230	191	211
	Time-Min.	78	94.7	79.5

## Economic Life

A testament to the Dash 8 100's popularity and rugged-ness, the aircraft has recently been approved for an Extended Service Program (ESP) taking the operational life of the aircraft from 80,000 cycles to 120,000 cycles. This provides extended safe operation and makes it an excellent platform for special-mission development.

## Efficiencies and Versatility

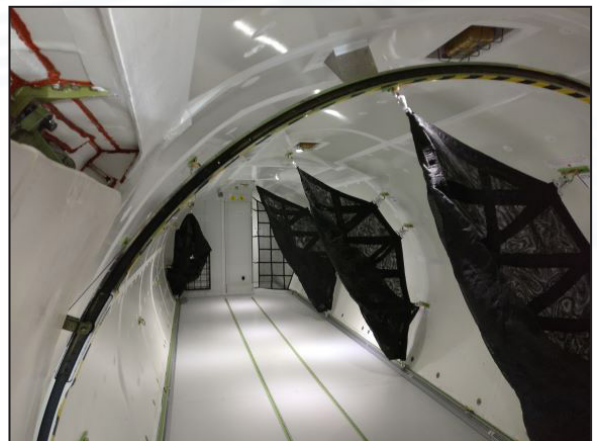
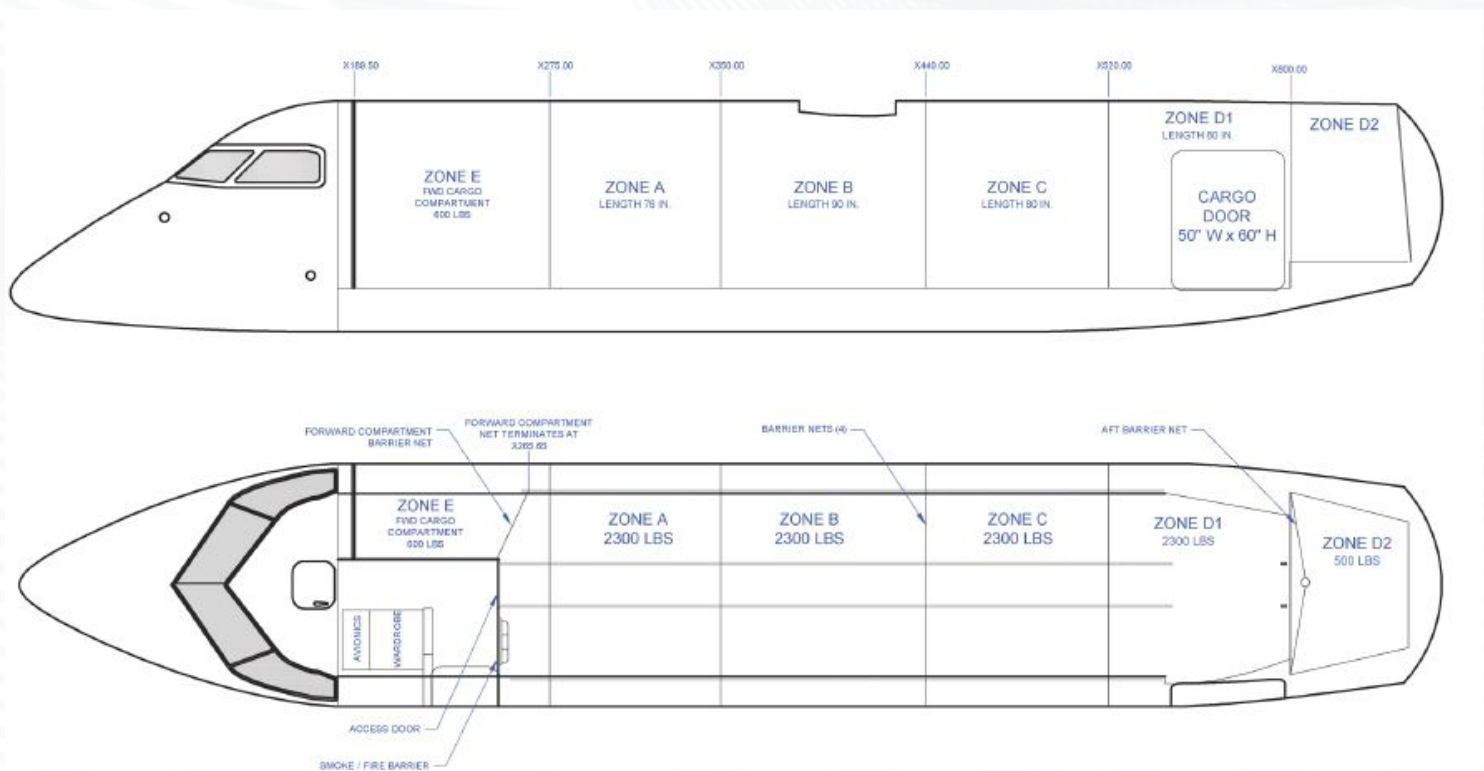
The Dash 8-100 remains popular due to its' cost-efficiency, reliability, and versatility. The development of the Package Freighter builds on these qualities. An analysis of operational cost to operational payload proves extremely favourable. The short take-off and landing capabilities of the aircraft open up new markets and airports that may be unavailable to other aircraft types. The aircraft is also well suited for unprepared/gravel/dirt airstrips, making it an excellent choice for remote operations.



## Design Elements

The Dash 8-100 PF is designed in accordance with a Class “E” Cargo Compartment, providing a comprehensive smoke detection system, ventilation shut off system and fire resistant liner (FAR 25, Appendix F, Part III). The cargo is designed to be loaded in ‘zones’ separated by 9G vertical barrier nets and securing structures. The aircraft is equipped with a 75 pound-per-square-foot cargo floor and advanced LED lighting.

The development of the Dash 8-100 package freighter provides an exceedingly cost-efficient option for transporting a typical payload of 10,800 lbs / 4,900 kgs of freight in a regional route structure.





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