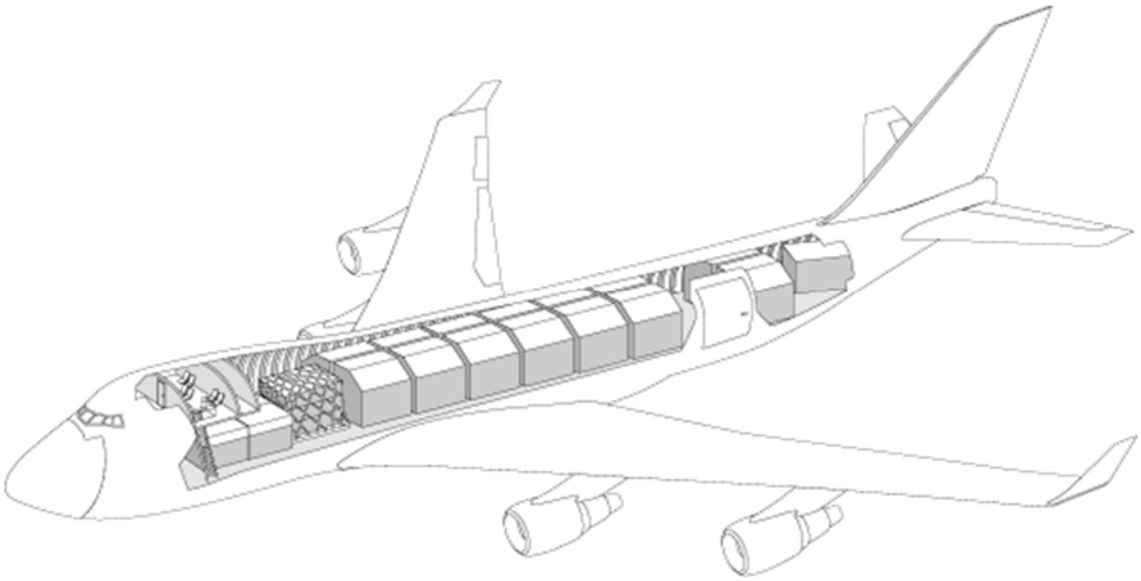
Cargo Aircraft Specifications



Select a category:

Resources

Airbus SAS (www.airbus.co m)

Website for the major European aerospace company. Contains information, photos, multimedia items, and technical specifications for all current and out-of-production Airbus aircraft.

Airbus SAS is a global company with design and manufacturing facilities in France, Germany, the UK, and Spain, as well as subsidiaries in the U.S., China, and Japan. Headquartered in Toulouse, France, Airbus is a joint EADS Company with BAE Systems of the UK.

Air Cargo News (www.aircargonews.net)

An award-winning newsletter published every two weeks with over 100,000 readers in more than 170 countries. Annual subscription varies from US$50 to US$209 (depending on destination). The Website has additional resources for professionals in the air cargo industry.

AirFax (www.airtrading.co m)

An aviation market letter that provides up-to-date, accurate, and comprehensive information on the worldwide availability of commercial transport aircraft. Two editions of the market letter are produced: a Jet Transport Aircraft edition that provides information on the availability of DC-9 and larger jet aircraft, and a Regional & Commuter Aircraft edition that provides similar information for turboprop and regional jet aircraft.

Airliners.NET

This Website has a comprehensive database of photos, illustrations, and general specifications for all current and out-of-production commercial aircraft, including freighters. Technical information is found at www.airliners.net/info.

A-Z Worldwide Airfreight Directory (www.azfreight.co m)

Online resource for air cargo professionals. Includes a directory (by country) of airports, airlines, airline sales agents, cargo agents, freight forwarders, cargo handling agents, charter brokers, express operators/couriers, services and suppliers to air cargo agents/operators, and services and suppliers to the freighter/airports industries.

Boeing Corporation (www.boeing.co m)

Website for the American aerospace company. Contains information, photos, multimedia items and technical specifications for all current and out-of-production Boeing aircraft, including those acquired through the 1997 merger with McDonnell Douglas.

Civil Jet Aircraft Design (www.elsevierdirect.com/companions/9780340741528/default.co m)

This website has a database of downloadable files (in HTML and Microsoft Excel formats) containing specifications for the 70 most important commercial aircraft currently flying. Information is separated into three categories: 1) Aircraft specification and mass data; 2) Aircraft geometric data; and 3) Aircraft performance data. Data are intended for undergraduate students of aeronautical design and for professionals in the industry.

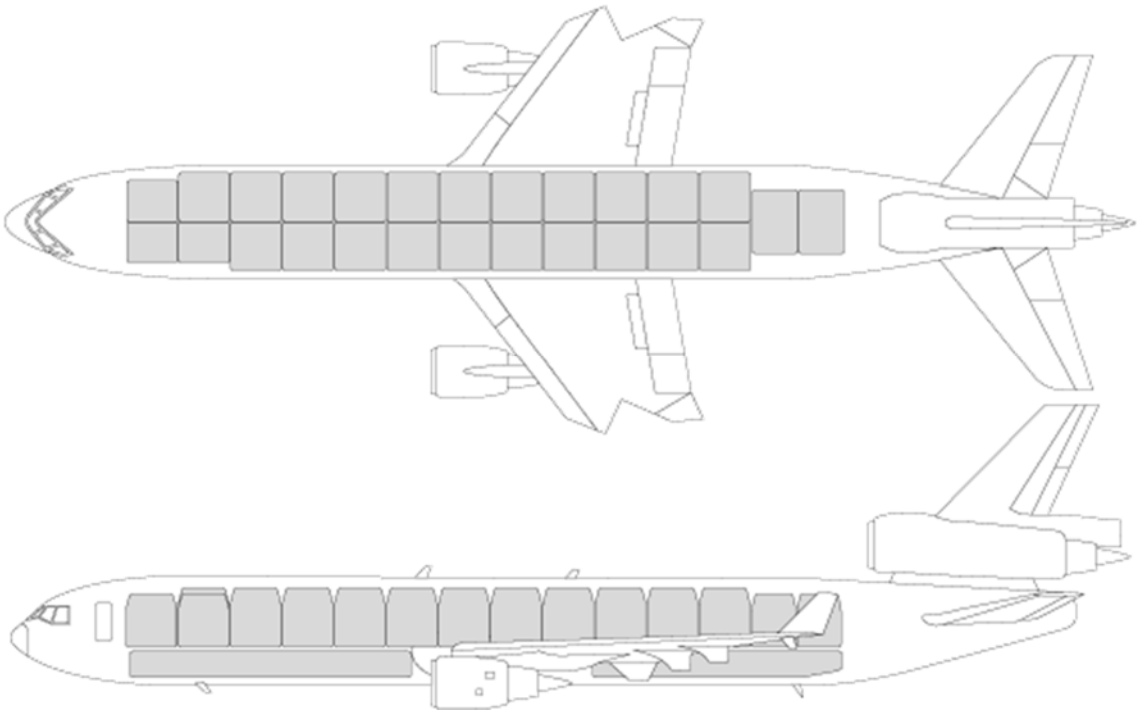
Freighter Reference Guide

A guide produced by The Boeing Company that provides information on freighter aircraft (including non-Boeing aircraft) that are currently in service throughout the world. The "Freighter Aircraft Specifications and Capabilities" section separates freighter aircraft into five categories based on each type's maximum payload capability. Within each category, aircraft are arranged alphabetically by manufacturer, and in turn, by ascending model variants. The payload-range information shown is based on typical international freighter mission rules, nominal performance, zero winds, sea-level takeoff and ISA conditions. The Guide can be downloaded from many sites, including the International Air Cargo Association's site at www.scribd.com and www.quikjet.co.in

Freighters Online (www.freightersonline.co m)

Comprehensive website that provides free access to specifications for all freighter aircraft and utility freighters, with cross-referencing and search capabilities. Includes complete listings of aircraft and freighters, ULD (unit load devices) and pallet characteristics, wingspans, loading specifications, structural payloads, and fuel capacities.

MD-11



MD-11 General Specifications

Manufacturer

Boeing Corporation

First flight

January 10, 1990

Wingspan

169ft 6in/51.66m

Length

200ft 10 in/61.21m

Height

57ft 9in/17.6m

Ceiling

41,000ft

Range

6,500nm/12,038 km

Weight

Passenger: 295,600 lbs/134,082 kg

Power Plant

Three Pratt & Whitney PW4460/62

-or- General Electric CF6-80C2

Speed

550 knots/1,017 km/h/ 0.83mach

Crew

2

Accommodation

285-323-410 in three, two or one class configuration

MD-11F (Freighter)

Maximum Takeoff Weight

272,070 kg (502,000 lb)

Maximum Landing Weight

213,870 kg (471,500 lb)

Structural Payload

93,170 kg (205,400 lb)

Usable Volume

433m 3 (15,653ft)

Maximum Stack Height

98.25in (249.5 cm)

Forward Cargo Door

140in wide by 103.5in high (356 cm x 263 cm)

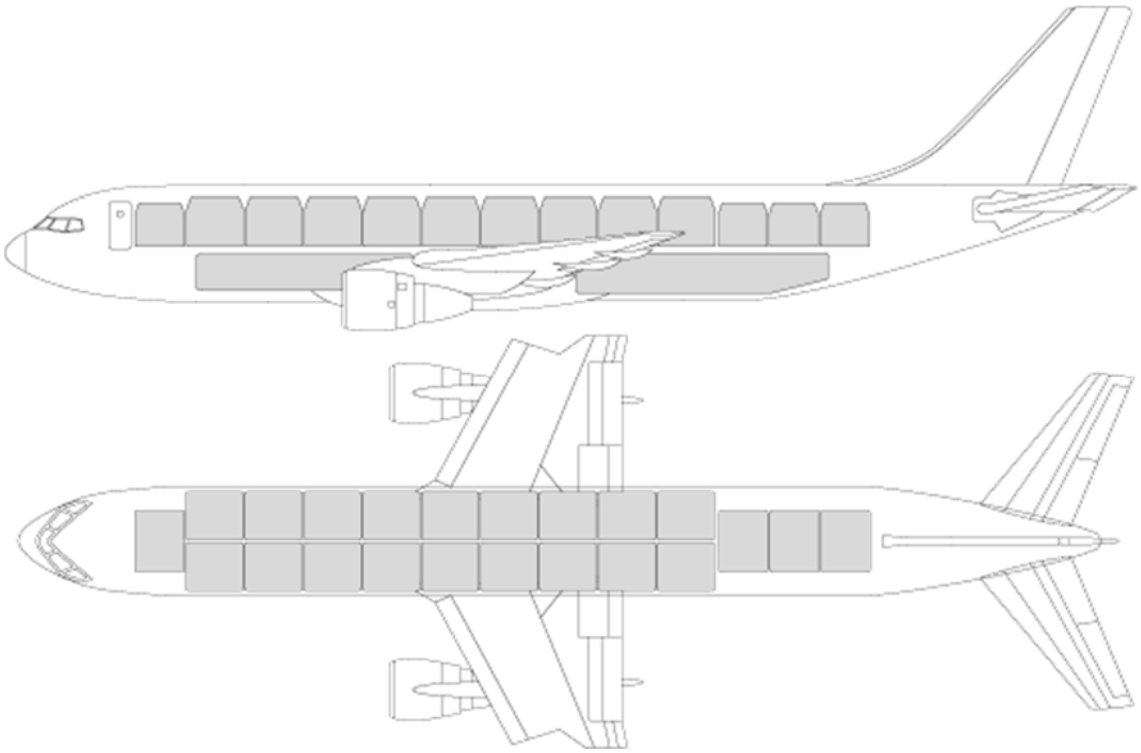
Lower Deck Capacity

5,566ft 3 (158m 3) of containerized or bulk cargo

ULD Accomodation

All standard industry containers.

Airbus A300-600F



Airbus A300-600F General Specifications

Manufacturer

Airbus Industries

First flight

2001

Wingspan

147ft 1in/44.84m

Length

177ft 5in/54.10m

Height

54ft 3in/16.54m

Ceiling

41,000ft

Range

1,950-2,650nm/3,650-4,850 km

Weight

300,900 lbs /136,363 kg

Power Plant

Two 262.4kN (59,000 lbs) General Electric CF6-80C2A1s

Speed

549knots /1,017 km/h/0.82mach

Crew

2

Payload

120,200 lbs/54,636 kg

Airbus A300-600 Freighter + Payload Mode

Maximum Takeoff Weight

168,000 kg (370,400 lb)

Maximum Landing Weight

143,300 kg (315,500 lb)

Bulk Hold Volume

11.27m^3 (398ft^3)

A300 and A310 Freighter Conversions

Typical conversion includes: installation of a 141in x 101in (3.58m x 2.57 m) main deck cargo door, floor reinforcement, a main deck cargo loading system, safety barrier net, smoke curtain, and additional fire-suppression equipment.

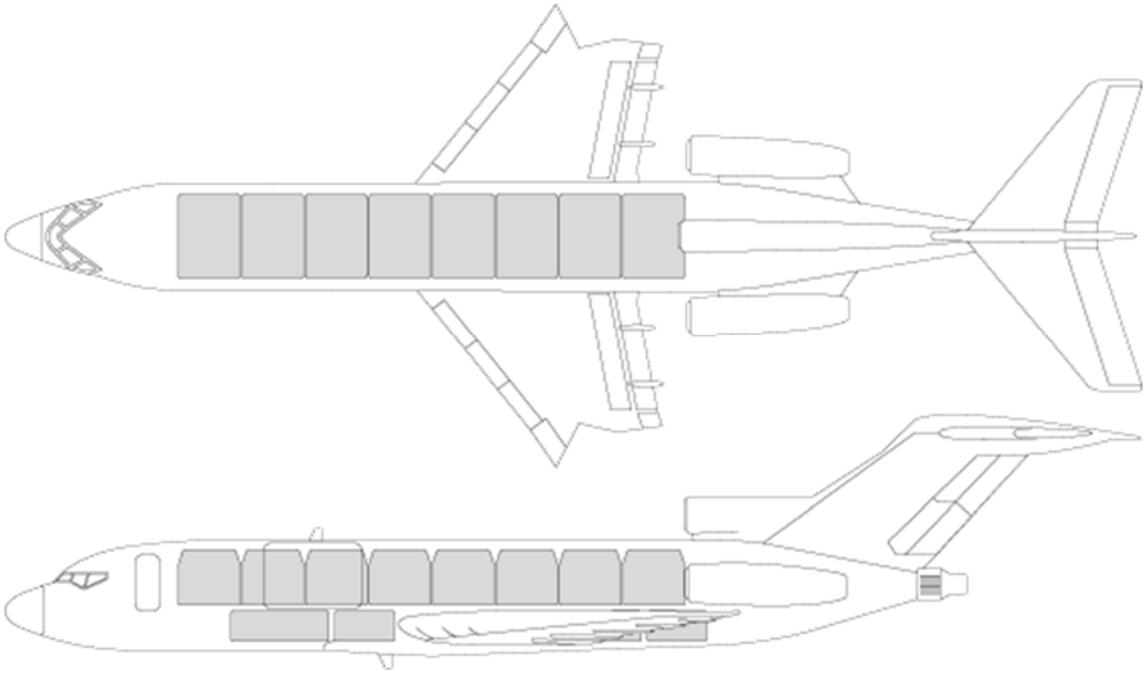
Cargo Loads for Converted Aircraft

Typical cargo loads for converted aircraft are:

A300 -- 48 tonnes on up to 25 88in x 125in pallets, 21 carried on the main deck and four in the forward underfloor hold, or alternatively, up to 21 pallets on the main deck plus up to 23 LD3 containers in the underfloor holds.

A310 -- 40 tonnes on up to 19 pallets, 16 on the main deck and three in the forward underfloor hold, or alternatively, up to 16 pallets on the main deck plus up to 15 LD3 containers in the underfloor holds.

Boeing 727-100



Boeing 727 General Specifications

Manufacturer

Boeing Corporation

First flight

February 9, 1963

Wingspan

108ft/ 32.91m

Length

133ft 2in/40.59m

Height

34ft/10.36m

Ceiling

40,000ft

Range

3,000nm /5,556 km

Weight

80,600 lbs /36,560 kg

Power Plant

Three Pratt & Whitney JT8D7

Speed

529 knots /980 km/h /mach 0.80

Crew

3

Accommodation

94-131 in two or one class configuration

Boeing 727-100 Freighter

Maximum Takeoff Weight

72,580 kg (160,000 lb)

Maximum Landing Weight

62,510 kg (137,800 lb)

Structural Payload

15,650 kg (34,500 lb)

Usable Volume

99m^3 (3,496ft^3)

Boeing 727-200 Freighter

Maximum Takeoff Weight

78,020 kg (172,000 lb)

Maximum Landing Weight

66,0400 kg (150,000 lb)

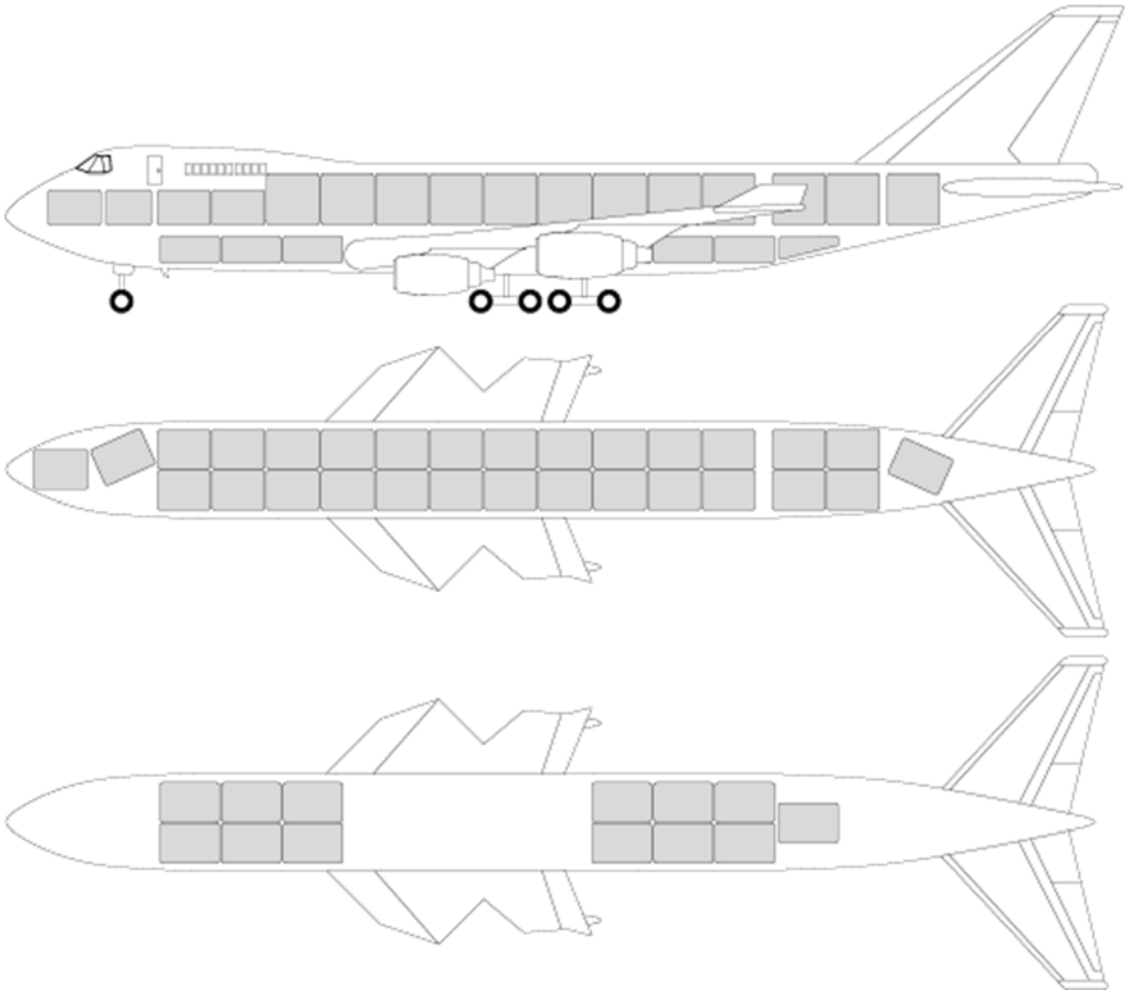
Structural Payload

na

Usable Volume

137m^3 (4,838ft^3)

Boeing 747 Freighter



Boeing 747 General Specifications

Manufacturer

Boeing Corporation

Cargo Volume, Main Deck

21,347ft^3 (605m^3)

30 pallets, 96x125in (244 x 318 cm)

Cargo Volume, Lower Deck

5,600ft^3 (159m^3)

32 LD-1 containers

Cargo Volume, Bulk Cargo

520ft^3 (15m^3)

Maximum Payload

248,300 lbs (112,630 kg)
Optional 273,300 lbs (123,970 kg) available with maximum take-off-weight limitation

Engines Maximum Thrust

Pratt & Whitney PW4062 -63,300 lb (281.57 kN)

Rolls-Royce RB211-524H2-T - 59,500 lb (264.67 kN)

General Electric CF6-80C2B5F - 62,100 lb (276.23 kN)

Maximum Fuel Capacity

53,765 U.S. gal (203,515 L)

Maximum Takeoff Weight

875,000 lb (396,900 kg)

Maximum Range

4,445 nautical miles (8,232 km)
Typical city range:

Paris-New York

New York-Frankfurt

London-Beijing

Toyky-Sydney

Typical Cruise Speed at 35,000 feet

0.845mach, 560mph (901 km/h)

Wing Span

211ft 5in (64.4 m)

Overall Length

231ft 10in (70.7 m)

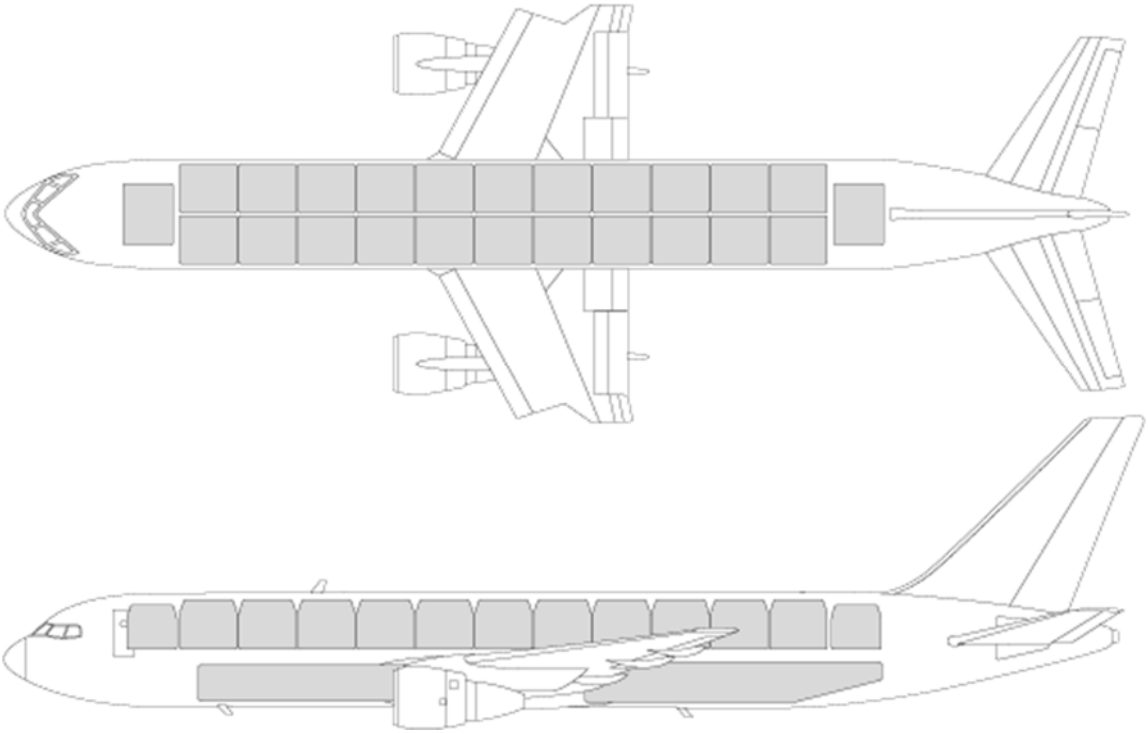
Tail Height

63ft 8in (19.4 m)

Interior Cabin Width

20 ft (6.1 m)

Boeing 757-200



Boeing 757 General Specifications

Manufacturer

Boeing Corporation

First flight

February 19, 1982

Wingspan

124ft 10in/38.05m

Length

155ft 3in/47.32m

Height

44 ft. 6in/13.56m

Ceiling

41,000ft

Range

3,928nm /7,275 km

Weight

128,730 lbs /58,391 kg

Power plant

Two RollsRoyce RB211535C / RB211535E4 -or-

Pratt & Whitney PW2037 / PW2040

Speed

530knots /982 km/h/0.80mach

Crew

2

Accommodation

192-239 in two or one class configuration

Boeing 757-200 Freighter

Maximum Takeoff Weight

115,670 kg (255,000 lb)

Maximum Landing Weight

95,260 kg (210,000 lb)

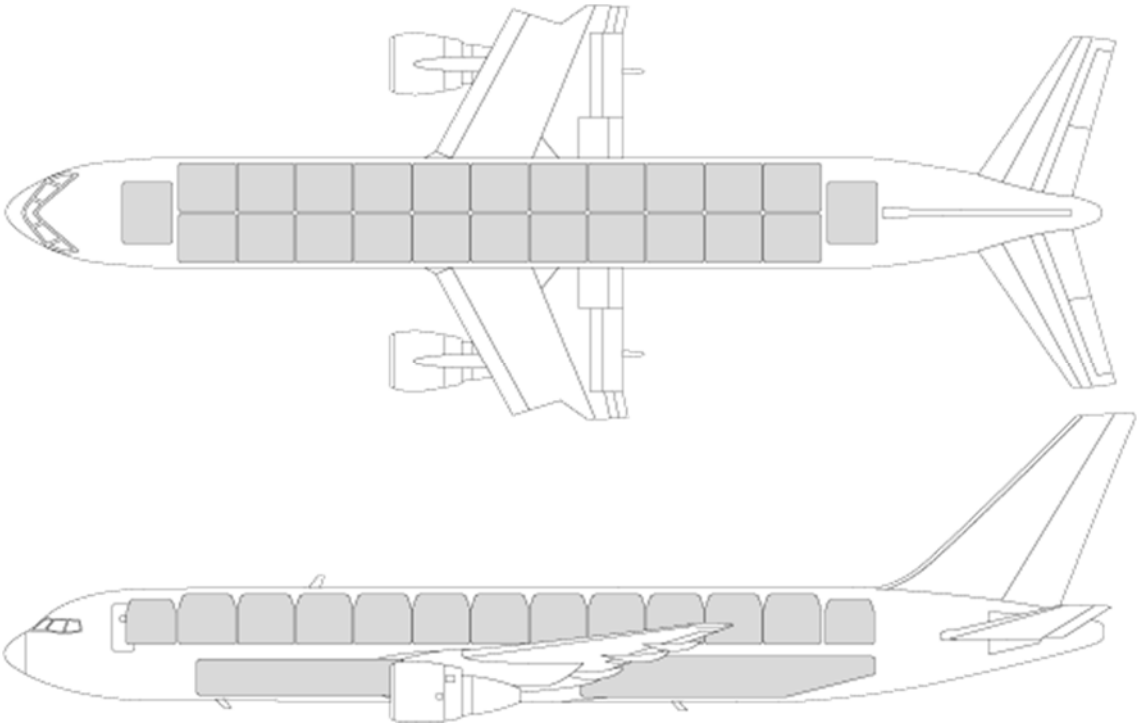
Structural Payload

31,750 kg (70,000 lb)

Usable Volume

187m^3 (6,603ft^3)

Boeing 767-300



Boeing 767 General Specifications

Manufacturer

Boeing Corporation

First flight:

January 30, 1986

Wingspan:

156 ft 1in/47.6m

Length:

180 ft 3in/54.9m

Height:

52 ft/15.8m

Ceiling:

41,000ft

Range:

6,115nm /11,325 km

Weight:

196,000 lbs /88,904 kg

(199,600 lbs /90,537 kg -extended range)

Power plant:

Two Pratt & Whitney PW4062 -or- General Electric CF6-80C2B7F -or- Rolls Royce RB211-514H

Speed:

530knots/982 km/h /0.80mach

Crew:

2

Accommodation:

218-269-351 in three, two or one class passenger
configuration / 60.5 tons as freighter

Boeing 767-300 Freighter

Maximum Takeoff Weight

188,880 kg (412,000 lb)

Maximum Landing Weight

147,870 kg (326,000 lb)

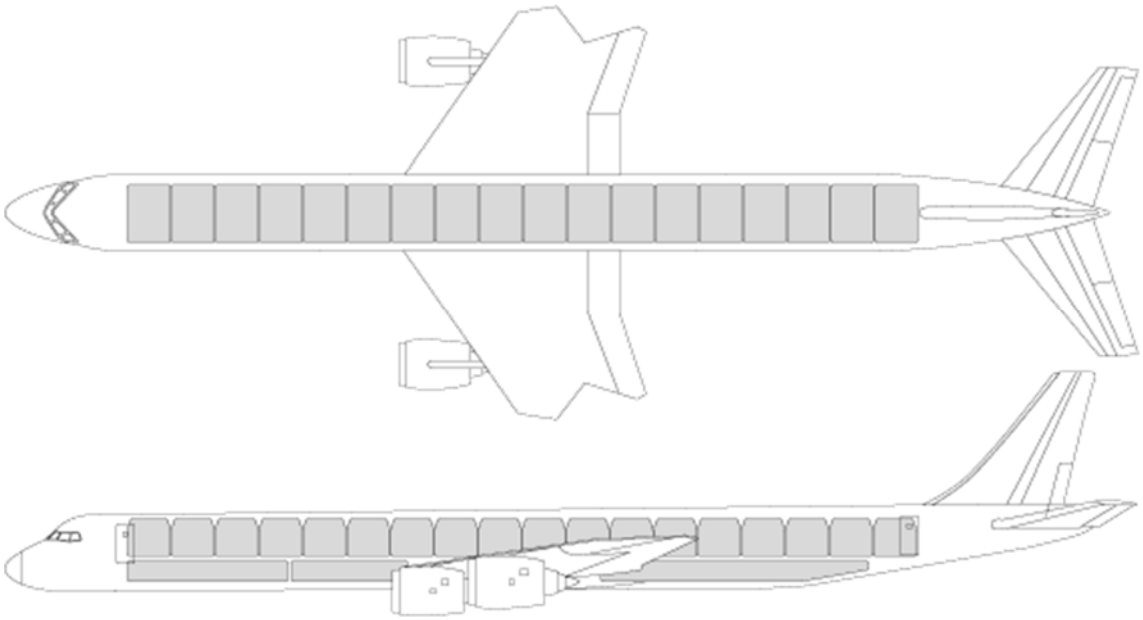
Structural Payload

54,840 kg (120,900 lb)

Usable Volume

336m^3 (11,865ft^3)

Douglas DC-8



DC-8 General Specifications

Manufacturer

McDonnell-Douglas Corporation, now Boeing Corporation

First flight:

May 30, 1958

Wingspan:

142ft 5in/43.41m

Length:

150ft 6in/45.87m

Height:

42ft 4in/12.91m

Ceiling:

35,000ft

Range:

4,800nm /8,890 km

Weight:

126,525 lbs /57,391 kg (-30) -to-

153,749 lbs / 69,739 kg (-63)

Power plant:

Four Pratt & Whitney JT3D

Speed:

500 knots / 926 km/h / 0.76mach

Crew:

3

Accommodation:

132-144-179 in three, two or one class configuration (Freighter: 17 tons)

DC-8 Model 62AF

Maximum Takeoff Weight

147,420 kg (335,000 lb)

Maximum Landing Weight

113,400 kg (250,000 lb)

Structural Payload

42,640 kg (94,000 lb)

Usable Volume

198m^3 (6,992ft^3)

DC-8 Model 62AFa

Maximum Takeoff Weight

158,760 kg (350,000 lb)

Maximum Landing Weight

113,400 kg (250,000 lb)

Structural Payload

42,640 kg (94,000 lb)

Usable Volume

198m^3 (6,992ft^3)

DC-8 Model 63AF

Maximum Takeoff Weight

161,030 kg (355,000 lb)

Maximum Landing Weight

124,740 kg (275,000 lb)

Structural Payload

52,620 kg (116,000 lb)

Usable Volume

252m^3 (8,900ft^3)