

Ejemplos de aeronaves existentes similares a las propuestas en los RFP 2006

Ultra Large Commercial Transport (ULCT)

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- RFP 2006
 - Advanced Very Light Jet (AVLJ)
 - Ultra Large Commercial Transport (ULCT)

Ejemplos Large Commercial Transport



Airbus 380 Freighter (A380F)

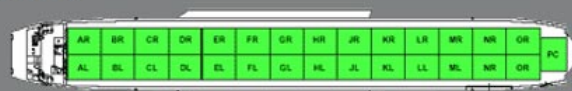


BASIC CONFIGURATION

UPPER DECK:

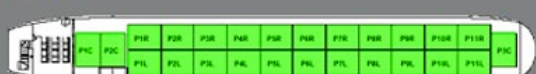


MAIN DECK:



OPTIONAL CONFIGURATION

UPPER DECK:



MAIN DECK:



AIRCRAFT DIMENSIONS

	metric	imperial
Overall length	73 m.	239 ft. 3 in.
Height	24.1 m.	79 ft. 7 in.
Fuselage diameter	7.14 m.	23 ft. 5 in.
Maximum cabin width		
Cabin length	50.68 m.	166 ft. 3 in.
Wingspan (geometric)	79.8 m.	261 ft. 8 in.
Wing area (reference)	845 m ²	9,100 ft ²
Wing sweep (25% chord)	33.5 degrees	33.5 degrees
Wheelbase	30.4 m.	99 ft. 8 in.
Wheel track	14.3 m.	46 ft. 11 in.

BASIC OPERATING DATA

	metric	imperial
Engines	Trent 900 or GP 7000	Trent 900 or GP 7000
Engine thrust range	340 kN	76,500 lb. slst
Typical passenger seating		
Range (w/max. passengers)	10,400 km.	5,600 nm.
Max. operating Mach number (Mmo)	0.89 Mo.	0.89 Mo.
Bulk hold volume - Standard/option	14.3 m ³	505 ft ³

DESIGN WEIGHTS

	metric	imperial
Maximum ramp weight	592 tonnes	1,305 lbs. X 1000
Maximum takeoff weight	590 tonnes	1,300 lbs. X 1000
Maximum landing weight	427 tonnes	941 lbs. X 1000
Maximum zero fuel weight	402 tonnes	886 lbs. X 1000
Maximum fuel capacity	310,000 Litres	81,890 US gal.
Typical operating weight empty	252.2 tonnes	555.5 lbs. X 1000
Typical volumetric payload	149.4 to 157.4 tonnes	329.4 to 347 lbs. X 1000

Airbus Beluga (A300-600ST)



- Longitud: 56,16 metros
- Envergadura: 44,84 metros
- Altura: 17,34 metros
- Superficie alar: 258,8 m²
- Diámetro del fuselaje: 7,7 metros
- Peso en vacío: 86 Toneladas
- Peso máximo al despegue: 152,9 Tn
- Radio de acción con 40Tn: 2.780 Km
- Radio de acción con 26Tn: 4.630 Km
- Capacidad de carga: 47 toneladas
- Volumen de carga: 1.365 m³
- Tripulación: 4



Comparativas Airbus



Aircraft 1	Aircraft 2
A380F	Beluga

AIRCRAFT DIMENSIONS

Overall length	73 m.	56.15 m.
Height	24.1 m.	17.24 m.
Fuselage diameter	7.14 m.	3.95 m.
Maximum cabin width		3.70 m.
Cabin length	50.68 m.	37.7 m.
Wingspan (geometric)	79.8 m.	44.84 m.
Wing area (reference)	845 m ²	122.40 m ²
Wing sweep (25% chord)	33.5 degrees	25 degrees
Wheelbase	30.4 m.	11.05 m.
Wheel track	14.3 m.	7.59 m.

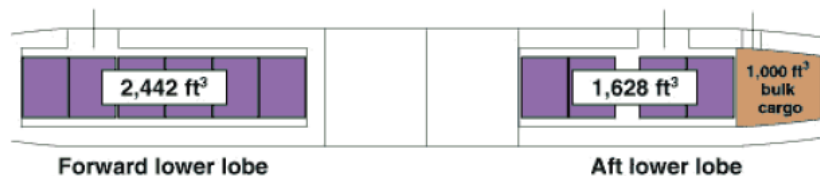
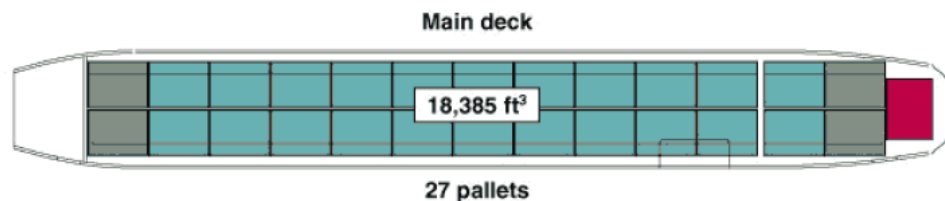
BASIC OPERATING DATA

Engines	Trent 900 or GP 7000	GE CF6-80C2A8
Engine thrust range	340 kN	119-120 kN
Typical passenger seating		40- tonne payload 2,779 km. / 26-tonne payload: 4,632 km.
Range (w/max. passengers)	10,400 km.	
Max. operating Mach number (Mmo)	0.89 Mo.	0.82 Mo.
Bulk hold volume - Standard/option	14.3 m ³	

DESIGN WEIGHTS

Maximum ramp weight	592 tonnes	
Maximum takeoff weight	590 tonnes	155 tonnes
Maximum landing weight	427 tonnes	140 tonnes
Maximum zero fuel weight	402 tonnes	133.5 tonnes
Maximum fuel capacity	310,000 Litres	23,860 (32,250) (34,430) Litres
Typical operating weight empty	252.2 tonnes	
Typical volumetric payload	149.4 to 157.4 tonnes	47 tonnes

Boeing 777-Freighter



- (22) 96-in x 125-in x 10-ft contoured pallet (692 ft³)
- (4) 96-in x 125-in x 111-in contoured pallets (637 ft³)
- (1) 96-in x 125-in x 8-ft contoured pallets (613 ft³)
- (10) 96-in x 125-in x 64-in contoured pallets (407 ft³)

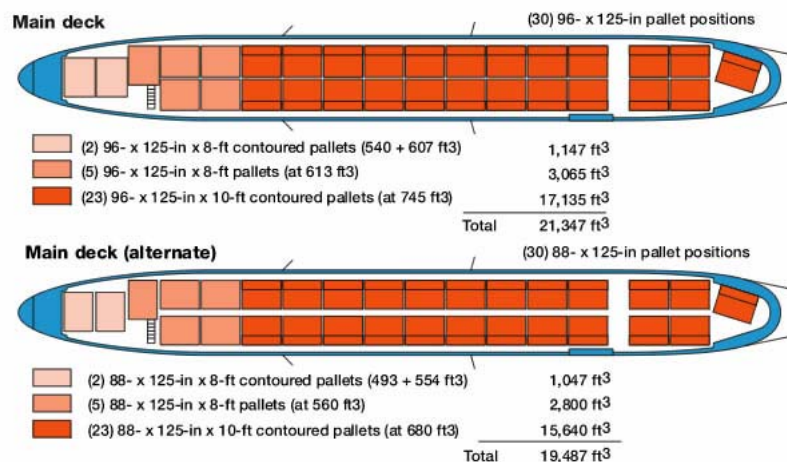
Total volume = 22,455 ft³ (636 m³)*

* Excludes bulk

Technical Characteristics -- Boeing 777 Freighter

Cargo Capacity	Total volume: 23,051 cu ft (653 cu m)
	Volume, Main Deck: 18,301 cu ft (518 cu m) 27 pallets, 96 in. x 125 in. (244 cm x 318 cm)
	Volume, Lower Deck: 4,150 cu ft (117.5 cu m) 10 pallets, 96 in. x 125 in. (244 cm x 318 cm) Bulk cargo: 600 cu ft (17.0 cu m)
	Maximum Revenue Payload: 229,000 lbs. (103 metric tons)
Engines maximum thrust	General Electric GE90-110B1 110,000 lb (489 kN)
Maximum Fuel Capacity	47,890 U.S. gal (181,280 L)
Maximum Takeoff Weight	766,000 lb (347,450 kg) with loading restrictions
Maximum Range	4,895 nautical miles (9,065 km) with volume limit payload at 10.2 lb/ cu ft (163 kg/ cu m) Typical city pairs: Los Angeles - London Tokyo - San Francisco Paris - Hong Kong
Typical Cruise Speed at 35,000 feet	0.84 Mach 557 mph (896 km/h)
Basic Dimensions:	Wing Span
	Overall Length
	Tail Height
	212 ft 7 in (64.8 m) 209 ft 1 in (63.7 m) 61 ft 1 in (18.6 m)

Boeing 747 Freighter



	747-400ER Freighter
Cargo	<p>Volume, Main Deck: 21,347 cu ft (605 cu m) 30 pallets, 96x125 in (244x318 cm)</p> <p>Volume, Lower Deck: 5,600 cu ft (159 cu m) 32 LD-1 containers</p> <p>Volume, Bulk Cargo: 520 cu ft (15 cu m)</p> <p>Maximum Payload: 248,600 lbs (112,760 kg) Optional 272,600 lbs (123,650 kg) available with maximum take-off-weight limitation</p>
Engines maximum thrust	<p>Pratt & Whitney PW4062 63,300 lb (281.57 kN)</p> <p>General Electric CF6-80C2B5F 62,100 lb (276.23 kN)</p>
Maximum Fuel Capacity	57,285 U.S. gal (216,840 L)
Maximum Takeoff Weight	910,000 lb (412,775 kg)
Maximum Range	<p>4,970 nautical miles (9,200 km)</p> <p>Typical city pairs: New York-Frankfurt, London-Beijing, Tokyo-Los Angeles</p>
Typical Cruise Speed at 35,000 feet	<p>0.845 Mach</p> <p>560 mph (901 km/h)</p>
Basic Dimensions	
Wing Span	211 ft 5 in (64.4 m)
Overall Length	231 ft 10 in (70.6 m)
Tail Height	63 ft 8 in (19.4 m)
Interior Cabin Width	20 ft (6.1 m)