

ISLANDER I500

The Islander I500 is a twin-engine turboprop airliner that can seat 165-180 passengers in single class configuration, but two class options is available. It is designed to have the capacity of a medium-sized narrowbody airliner but being a turboprop, it has much better fuel economy than its turbofan or even the more advanced geared turbofan counterparts.

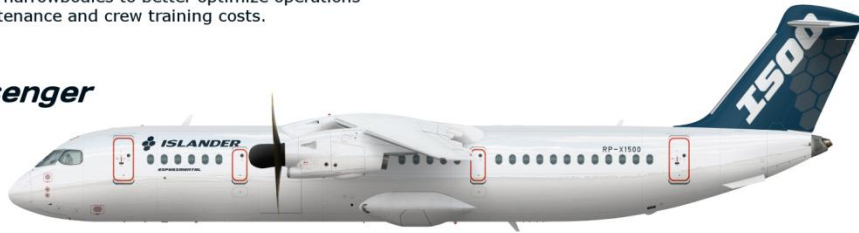
Being a turboprop, the I500 is optimized for short-haul flights of less than 2,800km or 1,700mi where the speed of a jet is negligible in comparison, making it far superior in fuel efficiency.

The aircraft shares much commonality to its sister ships, the I600 and I620 making it easier for airlines to operate mixed fleets of Islander narrowbodies to better optimize operations and reduce maintenance and crew training costs.

The aircraft has engines mounted on a high-wing configuration making it a possibility for the I500 to operate out of unpaved runways giving the aircraft potential for special operations to remote areas of the world where aircraft of similar size require heavy and expensive modifications.

The aircraft is powered by two Europrop TP400-D7B turboprops with a power output of 8,000kW or 11,000shp making it the most powerful single-rotation turboprop in the world.

Passenger



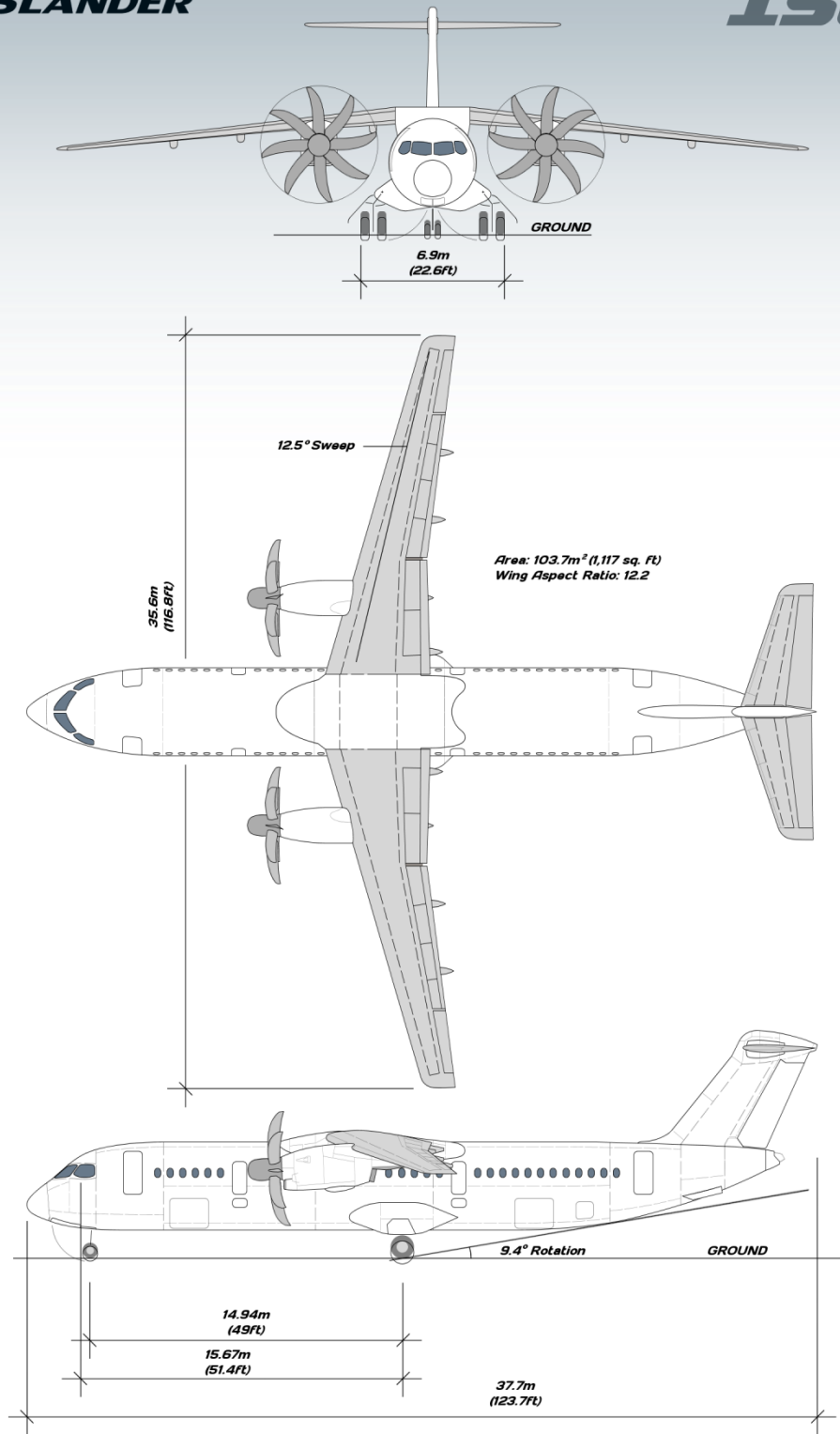
Fixed Combi



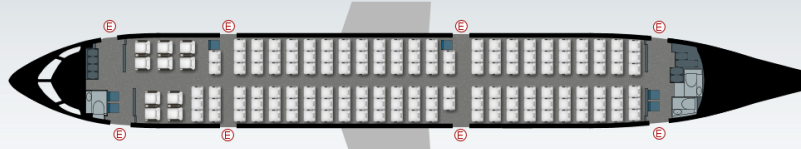
Freighter



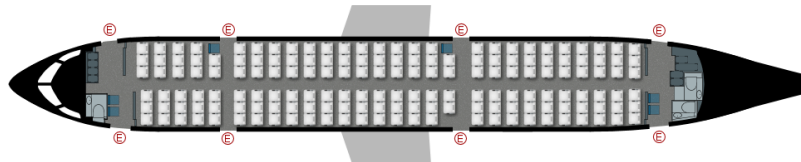
CREW		FUEL	
Cockpit	2	Volume	14,390L / 3,800 US gal
Cabin	4-6	Weight	11,660kg / 25,710 lb
PASSENGERS		PERFORMANCE	
Maximum	180	Range (km)	3,800km / 2,360mi / 2,050nm
1-class	165	Speed max.	775km/h / 482mph / 418kn
2-class	154	Speed cruise	750km/h / 466mph / 405kn
CARGO		Service ceiling	9,500m / 31,000 ft
Volume	37m ³ / 1,300 cu ft	Takeoff run	1,800m / 5,900 ft
ULD	7x LD3-45	ENGINES	
OVERALL GEOMETRY		Europrop TP400-D7B	
Length	37.70m / 123.7 ft	Power Output	8,200kW / 11,000shp
Wingspan	35.6m / 116.8 ft	COMBI VERSION	
Fuselage width	4.04m / 13.2 ft	Main deck ULD	3x LD7 (88" x 125")
Cabin width	3.81m / 12.5 ft		1x LD8 (60" x 96")
Wheelbase	14.94m / 49.0 ft	Main deck volume	39.28m ³ (1,386 cu ft)
WINGS		FREIGHTER VERSION	
Wing area	103.7m ² / 1,117 sq. ft	Main deck ULD	10x LD7 (88" x 125")
(exposed + center box)			1x LD8 (60" x 96")
Aspect ratio	12.2	Main deck volume	114.88m ³ (4,053 cu ft)
Wing loading	688.91kg/m ² / 141.0 lb/sq. ft		
Sweep	12.5deg		
WEIGHTS			
MTOW	71,440kg / 157,500 lb		
MZFW	59,780kg / 131,790 lb		
OEW	37,620kg / 82,940 lb		



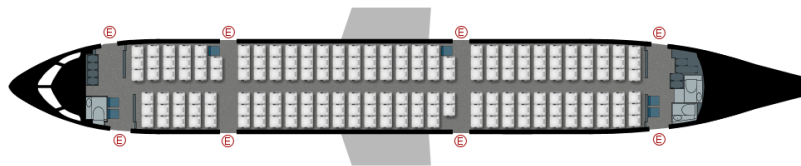
GENERAL DIMENSIONS



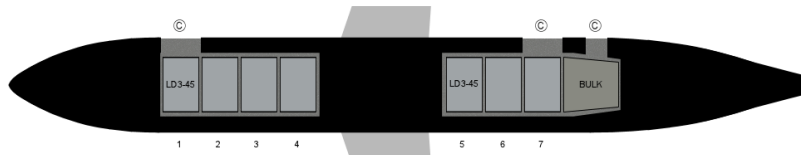
2-class 10C + 144Y



1-class 165Y



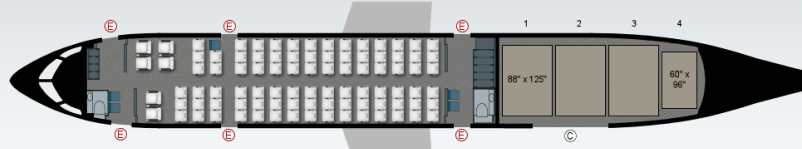
Dense 180Y



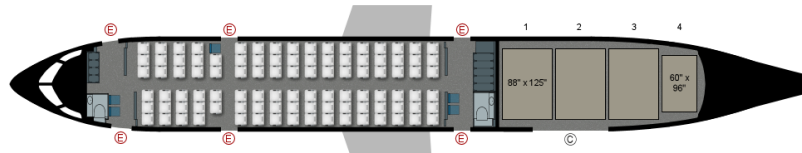
Cargo 7x LD3-45

CONTAINER MODE: 25.8m³ (910 cu ft) + 5.9m³ (210 cu ft) bulk
BULK MODE: 37m³ (1,300 cu ft)

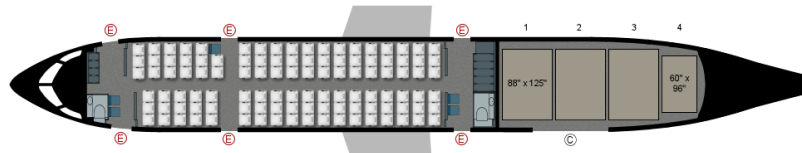
TYPICAL CONFIGURATIONS



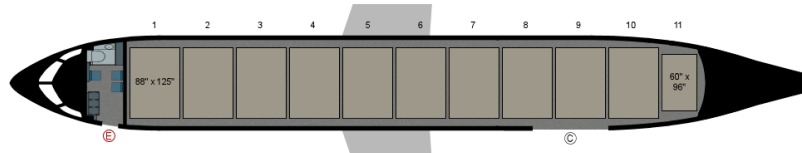
2-class 6C + 86Y + 3x LD7 + 1x LD8 pallets



1-class 100Y + 3x LD7 + 1x LD8 pallets



Dense 110Y + 3x LD7 + 1x LD8 pallets



All-freight 10x LD7 + 1x LD8 pallets

FREIGHTER CONFIGURATIONS