

ISLANDER I730

Islander I730 is Islander Aerospace's middle of the market airliner based on the lengthened I700 frame. It can seat 240 in two class configuration or up to 310 in high-density layout. It competes with the smallest widebodies on medium-haul while having the economics of a narrowbody.

The I730 is the longest single-aisle aircraft in the world. The aircraft has an 11-frame stretch over the I700 as well as a taller landing gear and other minor structural reinforcements. A long narrowbody design was chosen instead of a short widebody because it will have long-term weight and aerodynamic savings. The aircraft also has a high level of parts and crew commonality with the I500 and I600.

Two engine options will be available for the aircraft. The Pratt & Whitney PW2000G geared turbofans and the Harriett H180. Both feature the latest in efficient aircraft engines.

The fuselage is wider than any other single-aisle aircraft. There is an option for an extra-wide aisle configuration for faster turn around times. The I730's doors are unique in that two jetways can attach to it giving the I730's boarding and deboarding times comparable to smaller single-aisle jets. The composite structure also enables the aircraft to have larger windows for better flight experience.

The wings will have a unique gull shape to fit the large diameter engines with enough ground clearance. The wings will have very high aspect ratio for max efficiency. All this is possible because of the new composite materials that make the wing structure.

The I730 will share similar cockpit design as the I600 and I500 aircraft which has the most advanced fly-by-wire systems and software updates available.



CREW

Cockpit 2
Cabin 7-10

PASSENGERS

Maximum 310
1-class 280
2-class 242

CARGO

Volume 65.3m3 / 2,300 cu ft
ULD 16xLD3-45

OVERALL GEOMETRY

Length 58.20m / 191 ft
Wingspan 48.76m / 160 ft
Fuselage width 4.04m / 13.2 ft
Cabin width 3.81m / 12.5 ft
Wheelbase 25.78m / 85.0 ft

WINGS

Wing area 172.4m2 / 1,856 sq. ft
(exposed + center box)
Aspect ratio 13.7
Wing loading 725.52kg/m2 / 148.60 lb/sq. ft
Sweep 26.5deg

WEIGHTS

MTOW 125,080kg / 252,450 lb
MZFW 94,560kg / 185,170 lb
OEW 69,350kg / 129,590 lb

FUEL

Volume 37,680L / 9,950 US gal
Wing + center tank 34,080L / 9,000 US gal
Aux. tank 3,600L / 950 US gal
Weight 30,521kg / 67,287 lb

PERFORMANCE

Range 7,500km / 5,210mi / 4,520nm
Speed max. Mach 0.84
Speed cruise Mach 0.78
Service ceiling 12,500m / 41,000 ft
Takeoff run 2,600m / 8,530 ft

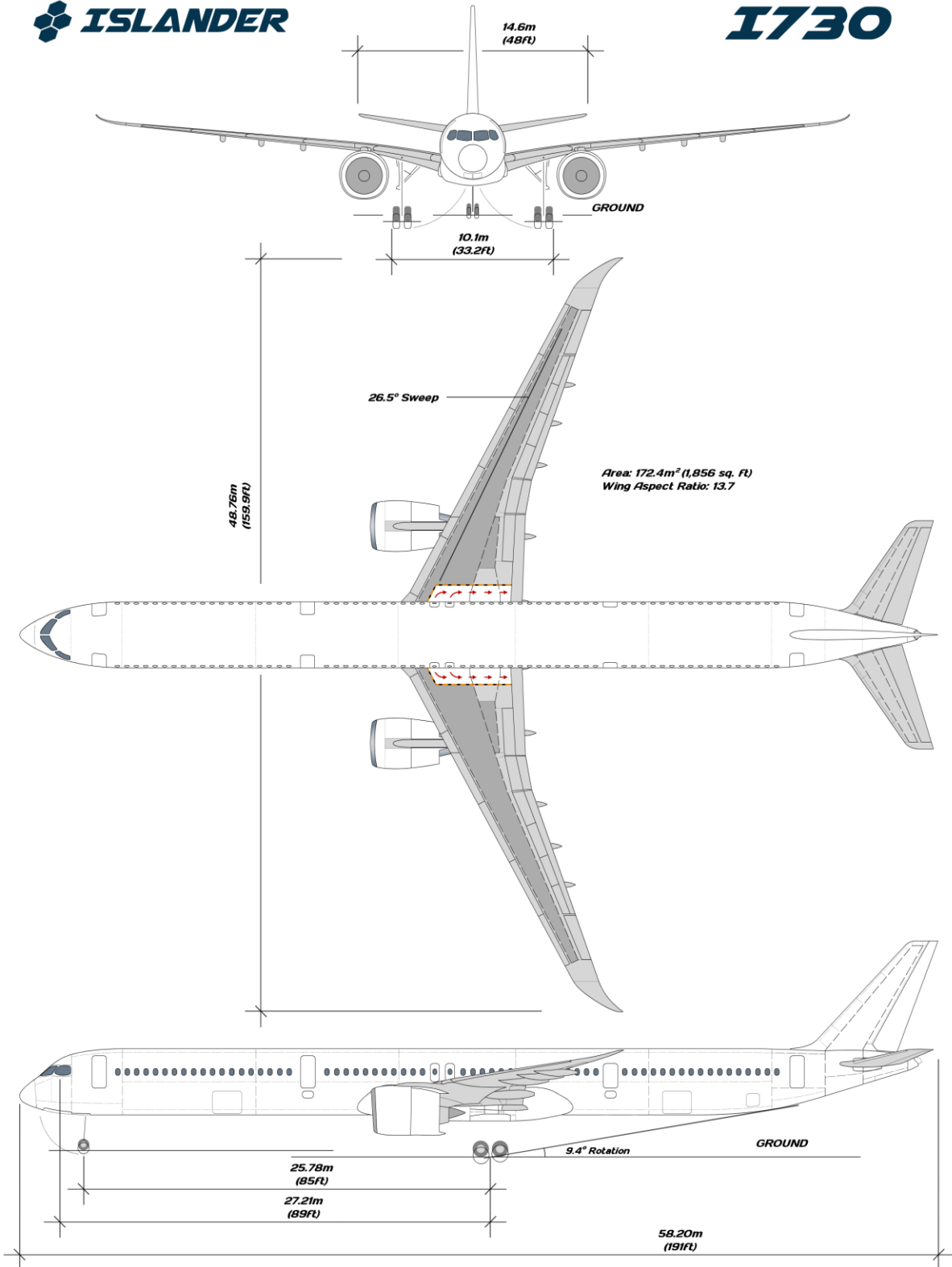
ENGINES

Harriett 180-B
Thrust 190kN / 42,710 lbf

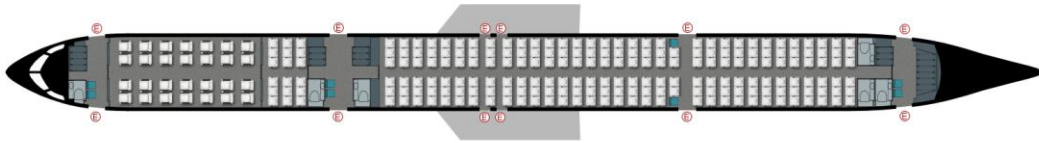
Pratt & Whitney PW 2127G
Thrust 195kN / 43,840 lbf



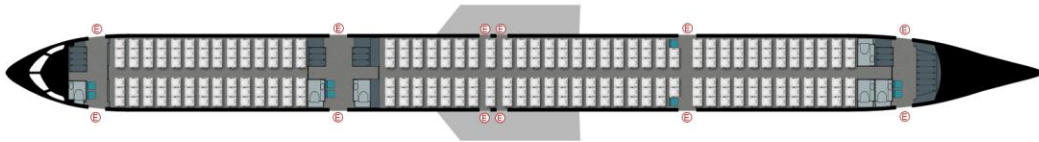
I730



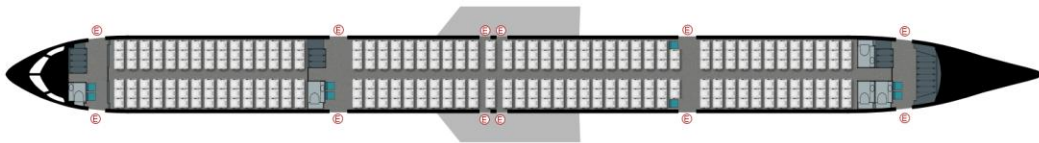
GENERAL DIMENSIONS



2-CLASS 2BC + 214Y



1-CLASS 2B0Y



DENSE 310Y



CARGO 16X LD3-45

CONTAINER MODE: 57.6M³ (2,030 CU FT) + 7.7M³ (270 CU FT) BULK

TYPICAL CONFIGURATIONS