

ISLANDER I620

The Islander I620 is a stretched version of the I600 narrow-body medium range airliner. The I620 is designed to seat 220 passengers in single class layout but a maximum seat number of 250 is allowed for high density configurations.

The I620 is designed for airlines looking for additional capacity without needing added range. The wings will have extended trailing edge to maintain the aerodynamic characteristics of its smaller sister. The wingtips is also extended to increase the span to support the heavier loads, yet it will fold so the aircraft can fit into class C parking gates that exist in most airports it will serve thus giving airlines the opportunity to increase capacity without needing more slots or larger parking gates.

Two engine options will be available for the aircraft. The Pratt & Whitney PW1000G geared turbofans and the Harriett H140 with a slight increase in thrust from the engines used on the I600.

The aircraft will have strengthened landing gears and wings. Larger tires will help distribute the aircraft weight better on the tarmac. Other minor changes include a belly camera for better visibility of the aircraft's taxiing movement.

Overall, the I620 keeps much commonality to its smaller sister the I600. Minimal additional pilot training is required for pilots who fly the I600. The I620 is a lighter weight, cost effective alternative for airlines requiring additional capacity without additional range.



CREW

Cockpit 2
Cabin 5-8

PASSENGERS

Maximum 249
1-class 226
2-class 200

CARGO

Volume 55.5m3 / 1,960 cu ft
ULD 11xLD3-45

OVERALL GEOMETRY

Length 46.65m / 153 ft
Wingspan 39.74m / 130.38 ft
Fuselage width 4.04m / 13.24 ft
Cabin width 3.81m / 12.5 ft
Wheelbase 18.69m / 61.3 ft

WINGS

Wing area 118.7m2 / 1,278 sq. ft
(exposed + center box)
Aspect ratio 13.3
Wing loading 788.54kg/m2 / 161.51 lb/sq. ft
Sweep 26.5deg

WEIGHTS

MTOW 96,030kg / 211,710 lb
MZFW 72,280kg / 159,350 lb
OEW 49,590kg / 109,330 lb

FUEL

Volume 29,320L / 7,750 US gal
Wing + center tank 22,720L / 6,000 US gal
Aux. tank 3,600L / 950 US gal
Aux. tank 2 3,000L / 790 US gal
Weight 23,750kg / 52,360 lb

PERFORMANCE

Range 6,650km / 4,130mi / 3,590nm
Speed max. Mach 0.88
Speed cruise Mach 0.82
Service ceiling 12,000m / 39,000 ft
Takeoff run 2,500m / 8,200 ft

ENGINES

Harriett 140-B

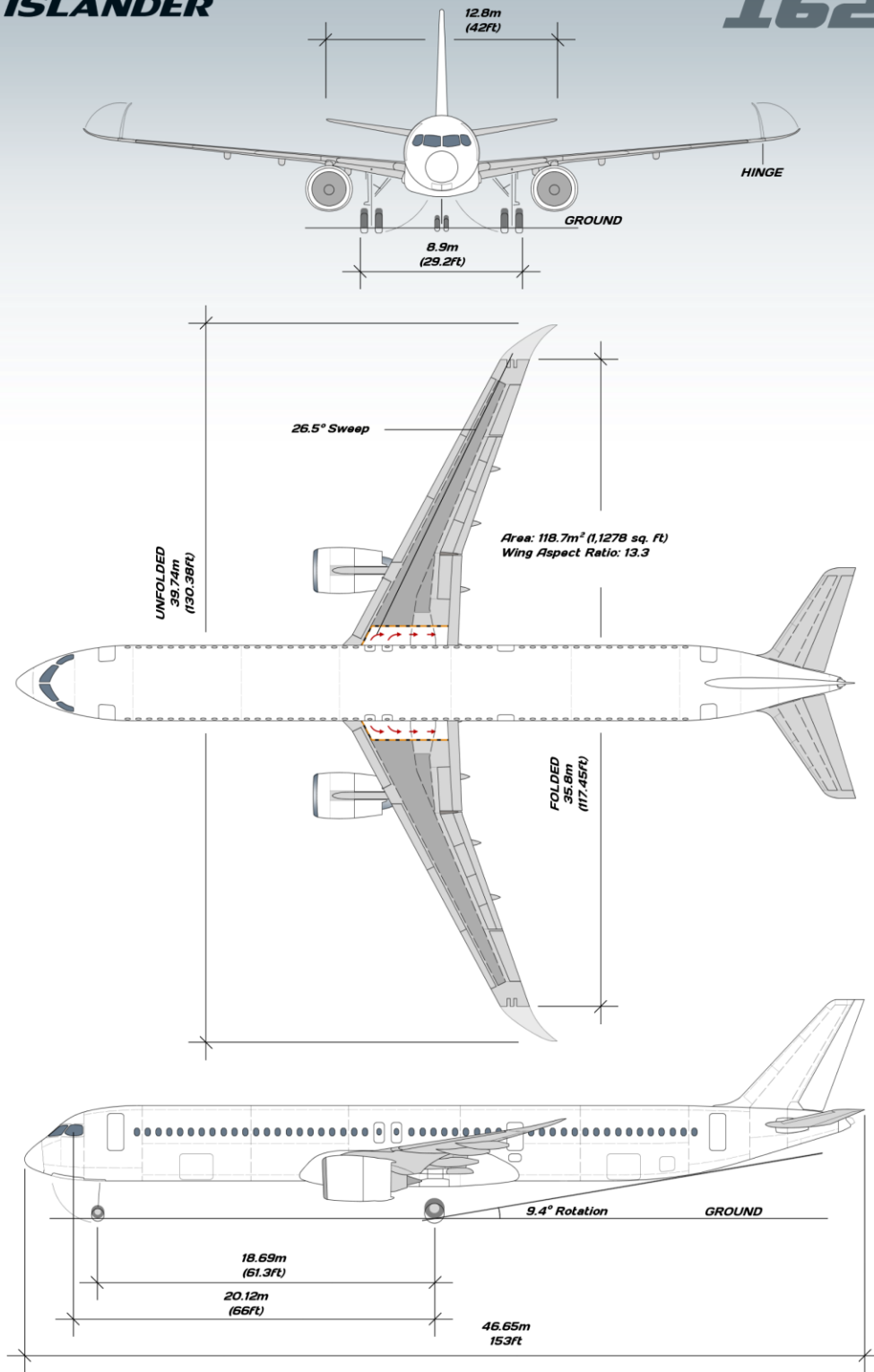
Thrust 150kN / 33,720 lbf

Pratt & Whitney PW 1130G

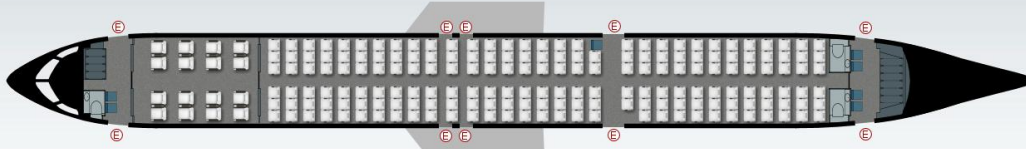
Thrust 147kN / 33,050 lbf



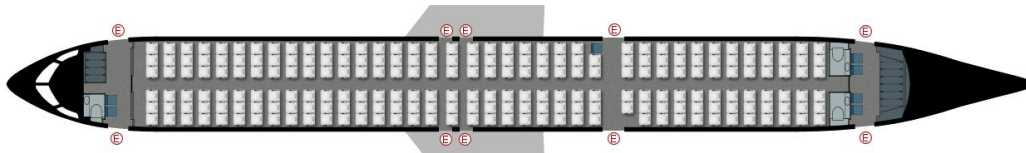
I620



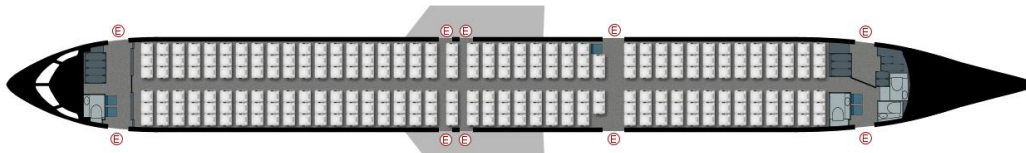
GENERAL DIMENSIONS



2-class 16C + 184Y



1-class 226Y



Dense 250Y



Cargo 11x LD3-45

CONTAINER MODE: 40.6m³ (1,434 cu ft + 5.9m³ (210 cu ft) bulk
BULK MODE: 55.5m³ (1,960 cu ft)

TYPICAL CONFIGURATIONS