SARAS

Features

- Multi-Role light Transport Aircraft with air taxi and services as its primary roles
- Ideal for Executive Transport, light Package Carrier, Remote Sensing, Aerial Search / Survey, Coast Guard, Border Patrol, Air Ambulance, Other Community Services

Status

- Two prototype aircraft have logged 140 hours of flying
- Weight optimized production standard aircraft under manufacture
- Certification expected by mid 2014 under FAR 23
- HAL to be the production partner
- IAF is the launch customer

Main dimensions

- Overall length: 15.02 m (49 3 ft)
- Overall height: 5.20 m (17 06 ft)
- Wing span: 14.70 m (48 2 ft)

Weight

- Max take-off weight: 7100 kg (15653 lb)
- Max fuel weight: 1431 kg (3155 lb)
- Max pay load: 1218 kg (2684 lb)

Power plant

SARAS is powered by two Pratt and Whitney Canada PT6A-67A turbo-prop engines (flat rated at 1200shp) driving 2.65 m diameter 5 bladed constant speed propellers at 1700 rpm in a pusher configuration.

Avionics system

SARAS has a state of the art Arinc-429 compatible integrated digital avionics system

Performance (ISA)

- Take-off distance: 670 m (2200 ft)
- Landing distance: 900 m (2950 ft)
- Max rate of climb: 610 m/min(2000 ft/min)
- Max range (14 pax): 590 km (45 min reserves)
- Max range (8 pax): 1275 km (45 min reserves)
- Ferry range: 1627 km (45 min reserves)
- Max cruise speed: 520 km/hr (280 kts)
- Endurance: 4 hr 45 min

Special features

- Low cabin noise (<80 db)
- Operable from semi-prepared runways
- Operable from hot and high altitude airfields
- Designed to meet FAR-23/25 requirements