



SARAS

NAL, Bangalore

SARAS



CSIR - National Aerospace Laboratories



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 flying and have logged 140 hours of flying
- Weight optimised design completed
- PT1 converted into PT1N incorporating design improvements

Main dimensions

Overall length	: 15.02 m (49.3 ft)
Overall height	: 5.25 m (17.2 ft)
Wing span	: 14.70 m (48.2 ft)

Weight

Max. take-off	: 7100 kg (15653 lb)
Max. fuel weight	: 1431 kg (3155 lb)
Max. pay load	: 1232 kg (2716 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

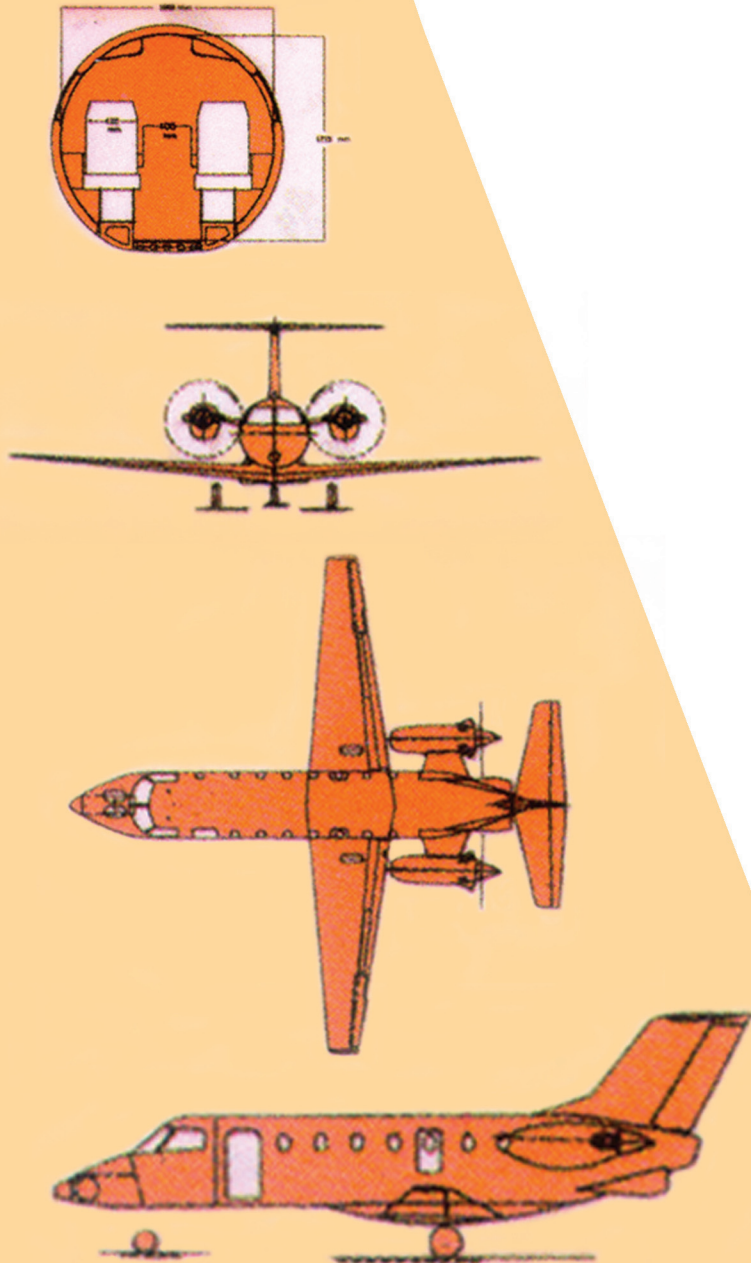
SARAS has a state of the art Arinc-429 compatible integrated digital avionics system.

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 reserve)
Max. range (8 pax)	: 1275 km (45 min reserve)
Ferry range	: 1627 km (45 min reserve)
Max. cruise speed	: 520 km/hr (280 KIAS)
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 requirements.



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