

Multi-Mission General Aviation Aircraft : NM5-100



Joint Development by
CSIR - National Aerospace Laboratories and
Mahindra Aerospace Pvt. Ltd.

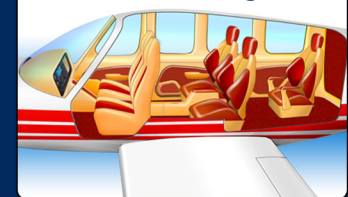


FEATURES

- Multi-Mission : Air Taxi, Training, Tourism,
Cargo, Executive Transport
- Certification basis : FAR Part 23
Normal Category
Day / Night VFR / IFR
- Equipping options :
- Standard : Conventional instruments
Stand alone avionics
Limited cabin environment control
Basic audio for pilot and passengers
 - Deluxe : Glass cockpit with Electronic Flight
Instruments System (EFIS)
Autopilot integrated with GPS-enabled Nav / Com
Air-conditioning
Improved sound-proofing
Improved cabin audio system



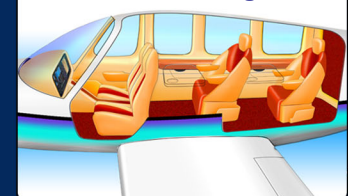
Executive B Segment



Cargo Version



Executive A Segment





NM5 - 100 SPECIFICATIONS



Dimensions

Overall length : 8.8 m (28 ft 9 in)
Overall height : 3.0 m (9 ft 10 in)
Wing span : 10.9 m (35 ft 8 in)
Wing area : 16.0 m² (172 ft²)

Weights

Max. take-off weight : 1525 kg (3362 lb)
Empty weight : 945 kg (2083 lb)
Useful load : 580 kg (1280 lb)

Airframe

All metal construction with composite cowling and fairings

Power plant

Lycoming IO-540 engine, 300 bhp @ 2700 rpm, 3-bladed constant-speed propeller

Avionics system

AMS, NAV / COM / GPS, CDI, Transponder, and ELT

Electrical system

24 V DC electrical system

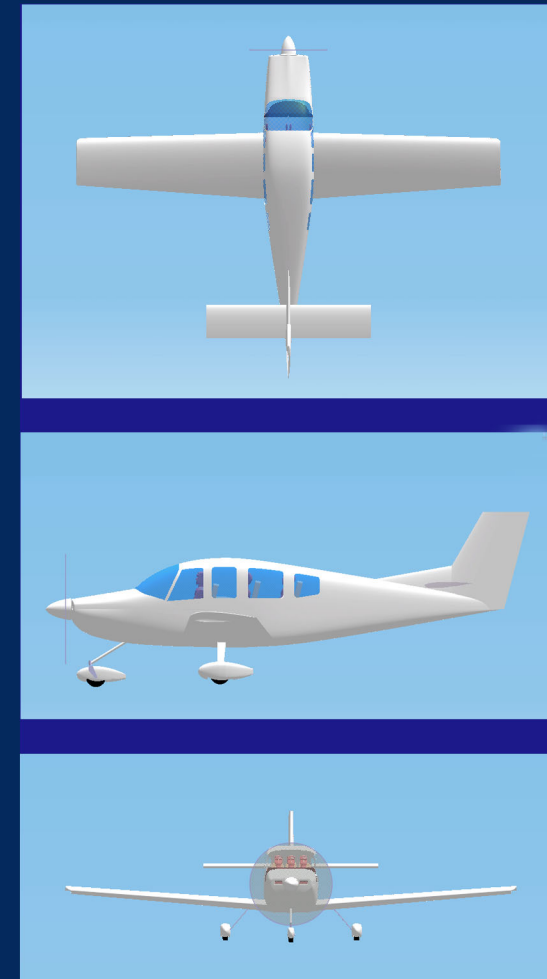
- 28 V, 70 A external generator
- 24 V, 19 Ah maintenance free battery

Performance (ISA)

Take off distance = 500 m (1640 ft)
Landing distance = 450 m (1476 ft)
Max. Level speed = 296 km/hr (160 KIAS)
Max. Rate of climb = 335 m/min (1100 fpm)
Flaps-up stall speed = 120 km/hr (65 KIAS)
Flaps-down stall speed = 102 km/hr (55 KIAS)
Range (with 320 kg payload) = 1295 km (700 nm)
Cruise altitude = 3050 m (10000 ft)

Optional systems

Air-conditioning and 2-Axis Autopilot



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