

Multi-Mission General Aviation Aircraft : C-NM5

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



First Flight on 1 September 2011 in Australia
Prototype Manufactured by Mahindra GippsAero.

Features

Multi-Mission	Air Taxi, Training, Tourism, Cargo, Executive Transport
Certification basis	FAR Part 23, Normal Category, Day / Night VFR / IFR
Equipping options	Conventional instruments, Stand alone avionics, Limited cabin environment control, Basic audio for pilot and passengers
Standard	
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

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 m ² (172 ft ²)

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)	1300 km (700 nm)
Cruise altitude	3050 m (10000 ft)

Optional systems

Air-conditioning and 2-Axis Autopilot

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