

Hansa-3 aircraft, designed and developed by CSIR-NAL and certified by DGCA in the year 2000, is being modified incorporating state-of-the-art technologies based on operator's feedback.

HANSA – 3



HANSA two-seat all composite aircraft

Hansa-3 is India's first all-composite light aircraft designed and developed by CSIR-NAL, ideally suited for ab-initio flying training, sport and hobby flying. Certified by DGCA under the FAR-23, amendment 23-42 using the requirements of JAR-VLA dated 26th April 1990, including amendment VLA/92/1 in February 2000.

Aircraft is lightning protected, is cleared for VFR and Night Flight Operations and has excellent flying qualities.

Twelve production standard aircraft have been supplied to flying clubs for pilot training. Hansa-3 is also used by IIT-Kanpur for extensive R&D work and student familiarization. Hansa-3 fleet has accumulated a total of more than 4000 hours.

Features

- IFR Certification
- New MIP with Glass Cockpit
- Steerable Nose Wheel
- Increased Endurance
- Electrically Operated Flap
- Heated Pitot Unit
- Improved manufacturing Process
- Improved Engine Cowling shape
- Improved Ingress/Egress
- Better Cockpit Aesthetics & Ergonomics
- LED Lights
- Provision for Baggage

Geometry

Overall length	7.6 m (25ft)
Overall height	2.61 m (8.5ft)
Wing span	10.47 m (34.35ft)
Wing area	12.47 m ² (41ft ²)
Cabin width	1.07 m (3.5ft)

Weight

Empty weight	515 kg (1135 lb) *
All-up-weight	750 kg (1653 lb)
Useful load	235 kg (518 lb) *
Usable fuel capacity	118 ltr *

* Applicable to HANSA - NG

Performance

Take-off distance	413 m (1355 ft)
Landing distance	540 m (1770 ft)
Max rate of climb	198 m/min (650 ft/min)
Max cruise speed	178 km/hr (96 KIAS)
Stall speed (with flaps 20°)	87 km/hr (47 KIAS)
Range	500 nm (926 km) *
Endurance	5.2 hr *

* Applicable to HANSA - NG

Electrical System

12V, 20Ah maintenance-free battery
14V, 40 A external generator

Powerplant

Rotax 914F3 (Turbocharged engine with a 100 bhp max continuous power @ 5500 rpm and 115 bhp @ 5800 rpm)

Propeller

Two-blade constant speed Hoffmann propeller of 173 cm (68 inch) diameter



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