

## Akasha300 3D Printer

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### Akasha300 3D Printer Latest News

The Kerala start-up delivers cutting-edge Akasha300 3D Printer to ISRO in a major step towards India's self-reliance in advanced manufacturing.

### About Akasha300 3D Printer

- It is a high-temperature **multi-material extrusion 3D printer**.
- It is backed by the **Space Technology Innovation and Incubation Centre** at IIST and the **Kerala Startup Mission**.

### Features of Akasha300 3D Printer

- The printer features **dual-extrusion technology** capable of operating at temperatures up to 350Â°C, with future upgrades planned to extend this to 500Â°C.
- Its modular extruder design allows **integration of additional extrusion systems**, paving the way for **hybrid additive manufacturing techniques**.

- The Akasha300 includes a heated bed that can reach up to 110°C, upgradeable to 150°C, and an enclosed chamber capable of maintaining temperatures up to 80°C.
- This enables stable and precise printing of high-performance materials that require strict thermal conditions.
- It is designed as an industrial-grade research platform, the system **incorporates a robust motion system and integrated air filtration.**
- **Significance:** These features make it suitable for research and development, allowing engineers and scientists to create functional components and prototypes with greater speed and accuracy.

**Source: IT**

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