

DHRUVA SPACE PRIVATE LIMITED

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DHRUVA
SPACE

FULL STACK SPACE ENGINEERING



SPACE SEGMENT

SMALL SATELLITES

- Design to specification
- Assembly & Integration
- Testing & Qualification
- Constellation Design
- Inter Satellite Links



LAUNCH SEGMENT

SATELLITE LAUNCH

- CubeSat Deployer
- SmallSat Deployer
- Launch Liaising
- Frequency Coordination

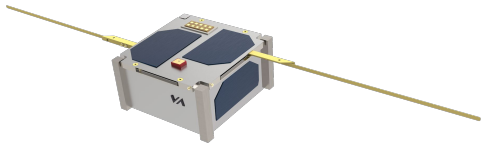


GROUND SEGMENT

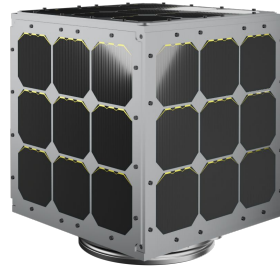
EARTH STATIONS

- VHF / UHF / S / X / Ka / Ku Band
- Miniaturized Terminals
- Remotely Operable Terminals
- Mission Control & Operations

SPACE SEGMENT



P-DOT



P-30



P-90

Up to 6 kg

10 to 50 kg

50 to 300 kg

PLATFORM MASS

100 x 100 x 200 mm

100 x 200 x 300 mm

Mission specific

PAYLOAD VOLUME

Up to 4 kg

Up to 15 kg

Mission specific

PAYLOAD MASS

Up to 4 W

Up to 30 W

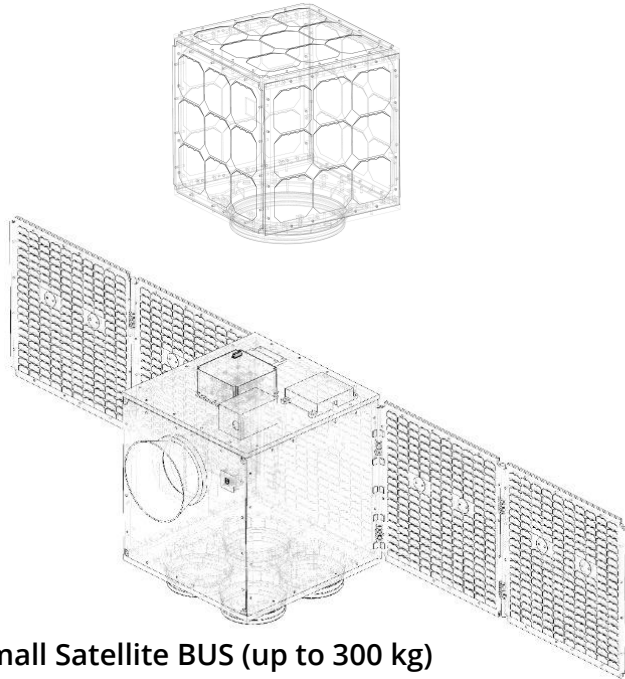
Mission specific

PAYLOAD POWER

CONFIGURABLE ACCORDING TO PAYLOAD

INTERFACES

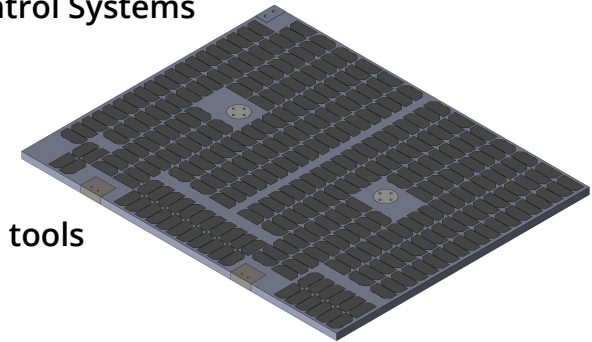
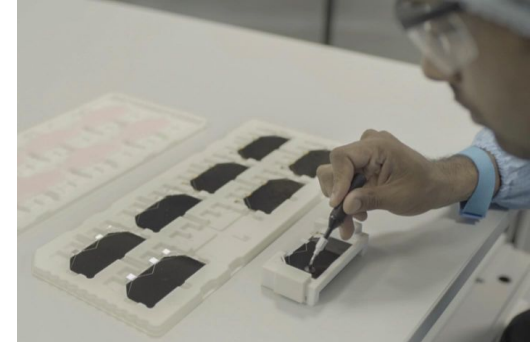
SPACE SEGMENT



Small Satellite BUS (up to 300 kg)

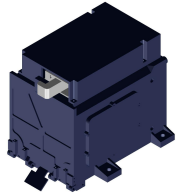
- **Advanced Communication and Earth Observation Constellations**

- Solar Arrays
- Electrical Power Systems
- On board Computers
- Communication Systems
- Antenna Systems
- Guidance, Navigation and Control Systems
- Drives and mechanisms
- Electric Propulsion Systems
- Mission planning and analysis tools

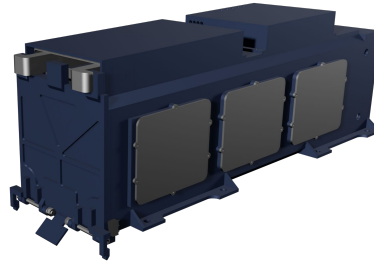


LAUNCH SEGMENT

Dhruva Space Satellite Orbital Deployer



DSOD-1U



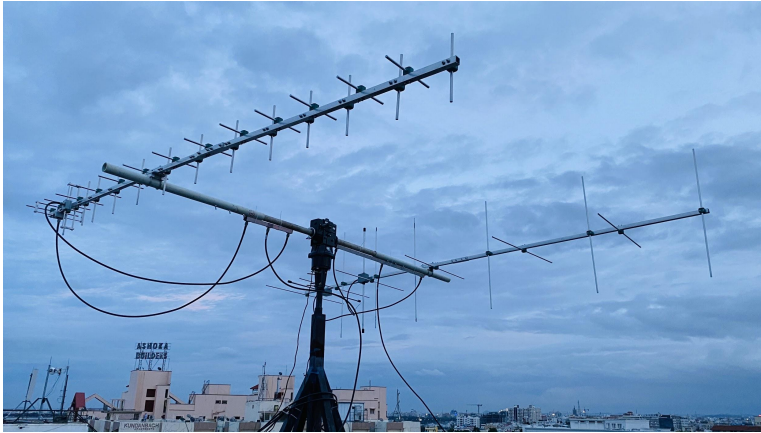
DSOD-3U



DSOD-12U

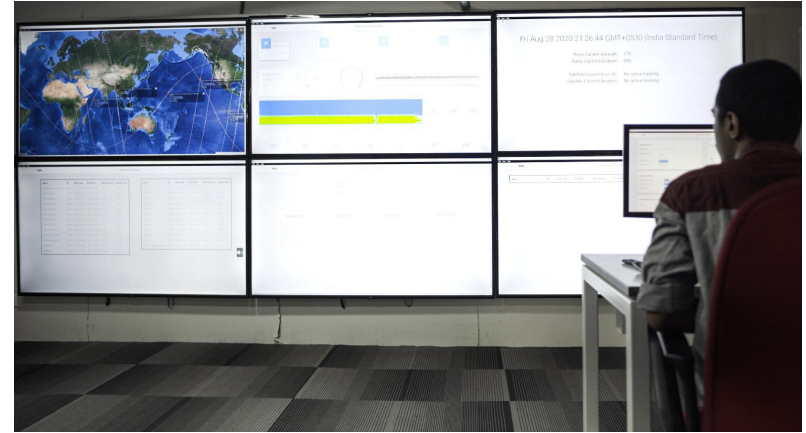
- Rapid build, assemble and deploy capabilities
- Launch on-demand from Space
- Launch on PSLV / SSLV / Soyuz / International Space Station (ISS)

GROUND SEGMENT



Ground Station - Turnkey & Services

- Capabilities in VHF / UHF / C / S / X / Ka / Ku Bands
- Global Coverage - Polar & Equatorial



Mission Operations and Control Centre

- Remote Operability Solutions
- End-to-end Mission Control and Operations

ONGOING RESEARCH

ISRO: PSLV IV Stage Orbital Platform

1. Integrated Inter Satellite Link Module
2. Reconfigurable Deployers
3. Microgravity Experiments
 - a. Drug Discovery
 - b. Organ-on-chip
4. Novel Release Mechanisms for Space Applications

ISRO: Human Spaceflight Program

1. 3D printed antennas for Space applications
2. Food supplements for long space missions
3. Human-in-loop Space System Simulator
4. Miniaturized antennas for high speed data links
5. SMA based actuators
6. 3D printing of composite materials
7. Phase Change Materials for Space Applications
8. Thermal protection systems for re-entry vehicles

GLOBAL PARTNERSHIPS & PROJECTS



CORE TEAM



SANJAY NEKKANTI
CEO



ABHAY EGOOR
CTO



KRISHNA TEJA
COO



CHAITANYA DORA
CFO



SRIKANTH REDDY
CBDO



VISHAL LB
MISSION SPECIALIST

EXPERIENCE

