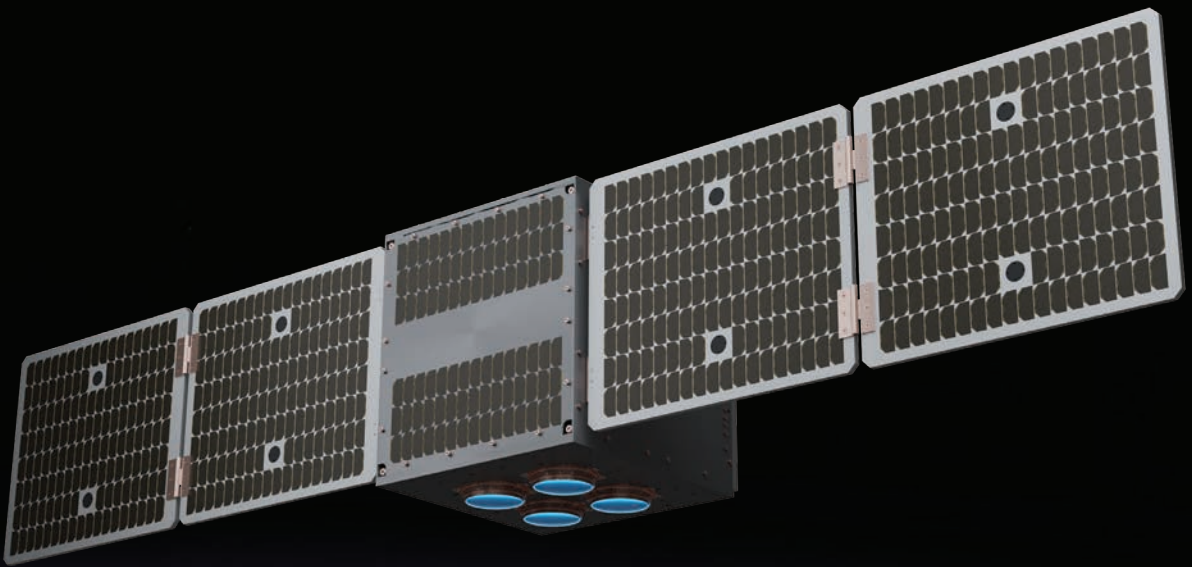




SOLIS+

SmallSat Power Solutions



Powering your Spacecrafts

www.dhruvaspace.com

Solis+

Solis+ is a portfolio of Space-grade Solar Arrays meticulously built using high-efficiency (up to 30%) Triple-junction GaAs Solar Cells to maximise power generation. These Solar Arrays are precision-engineered and manufactured by Dhruva Space to operate in the demanding conditions of Space, offering power capacities in the order of a few kW suitable for larger classes of satellites and spacecrafts.

- Mission-specific custom designs
- Faster turnaround time
- Deployables
- LEO-optimised



Key Features

Multi-junction Space-grade Solar Cell Assemblies (SCAs)

Coverglass Interconnected Cells (CICs) of integrated bypass diode

Mission-specific customisation:

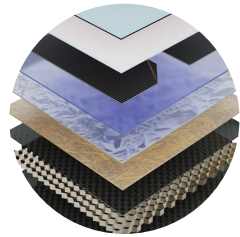
- Form factors
- Solar cells
- Launch loads
- Orbits

Deployables with flight-proven Hinges and Hold-Down and Release Mechanisms

Solar Arrays for SmallSats

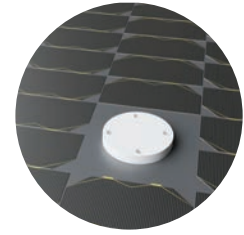
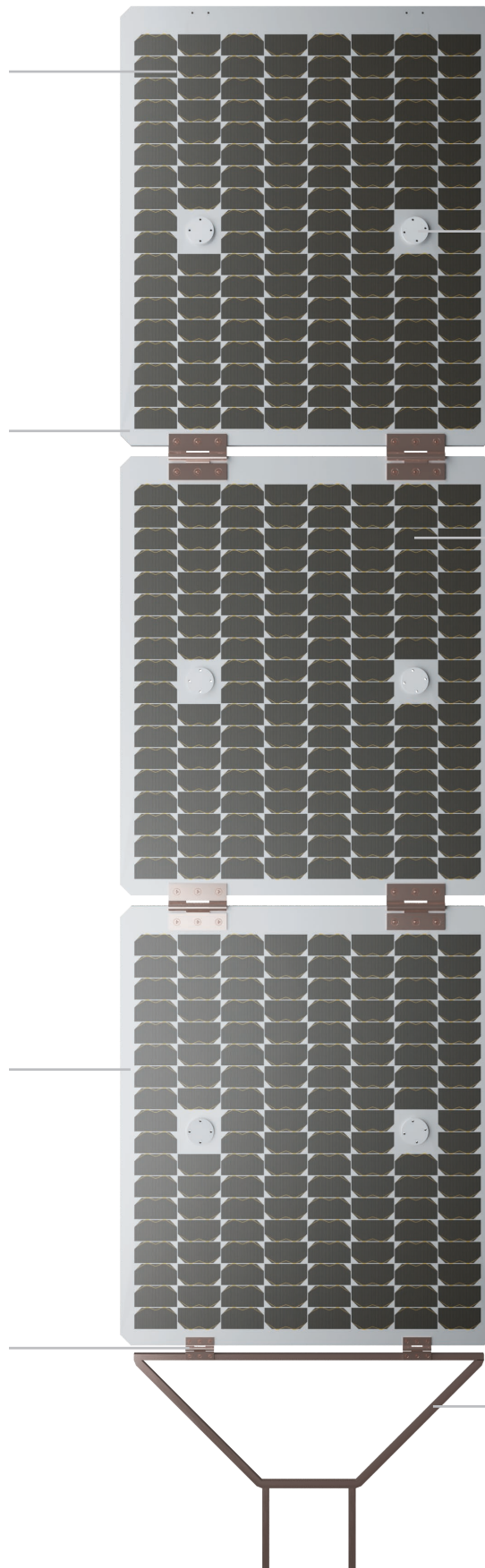
Highly reliable Solar Arrays with power production up to 100 kWs

CFRP Honeycomb sandwich substrate with local reinforcements



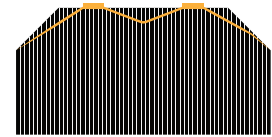
Fabricated and certified as per ECSS or equivalent standards

Flight-proven Hinges



Flight-proven, low-shock, and redundant Hold-Down and Release Mechanisms

High-efficient Triple-junction (up to 30%) GaAs Coverglass Interconnected Cells (CICs)



Customisation:

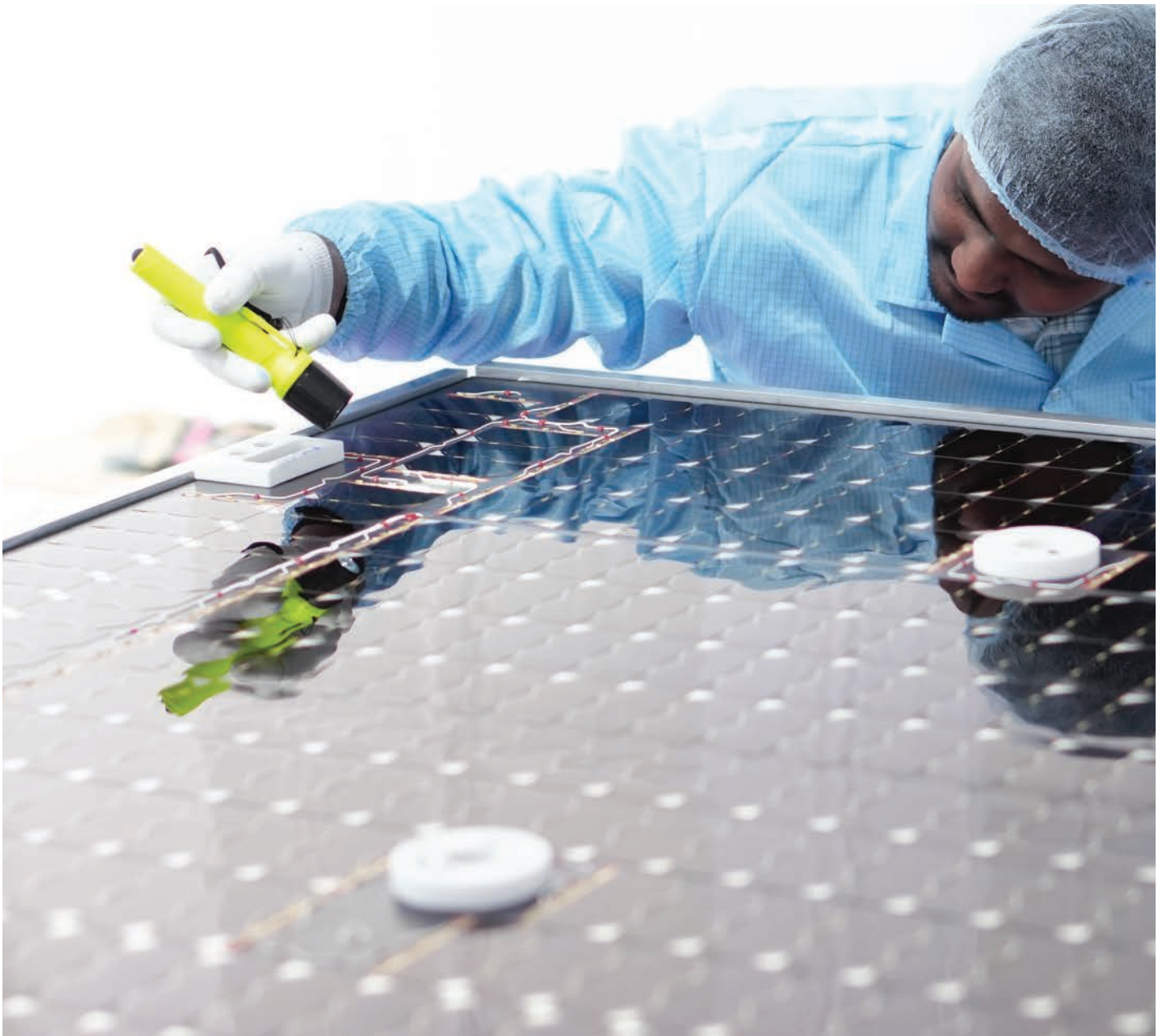
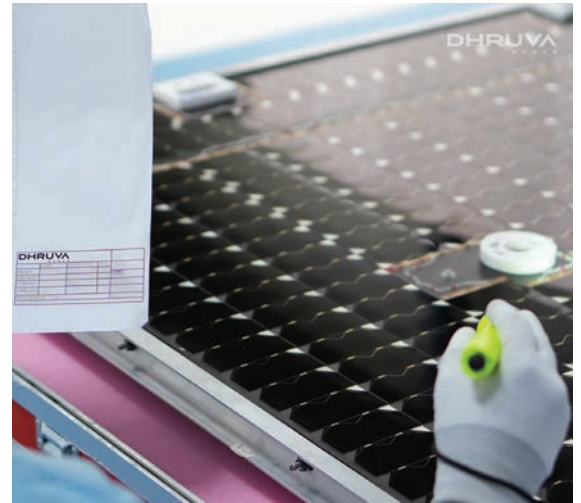
- Mission requirements
- Substrate design
- CICs

SADA (Solar Array Drive Assemblies) and BAM (Beta Angle Mechanism)

Qualification

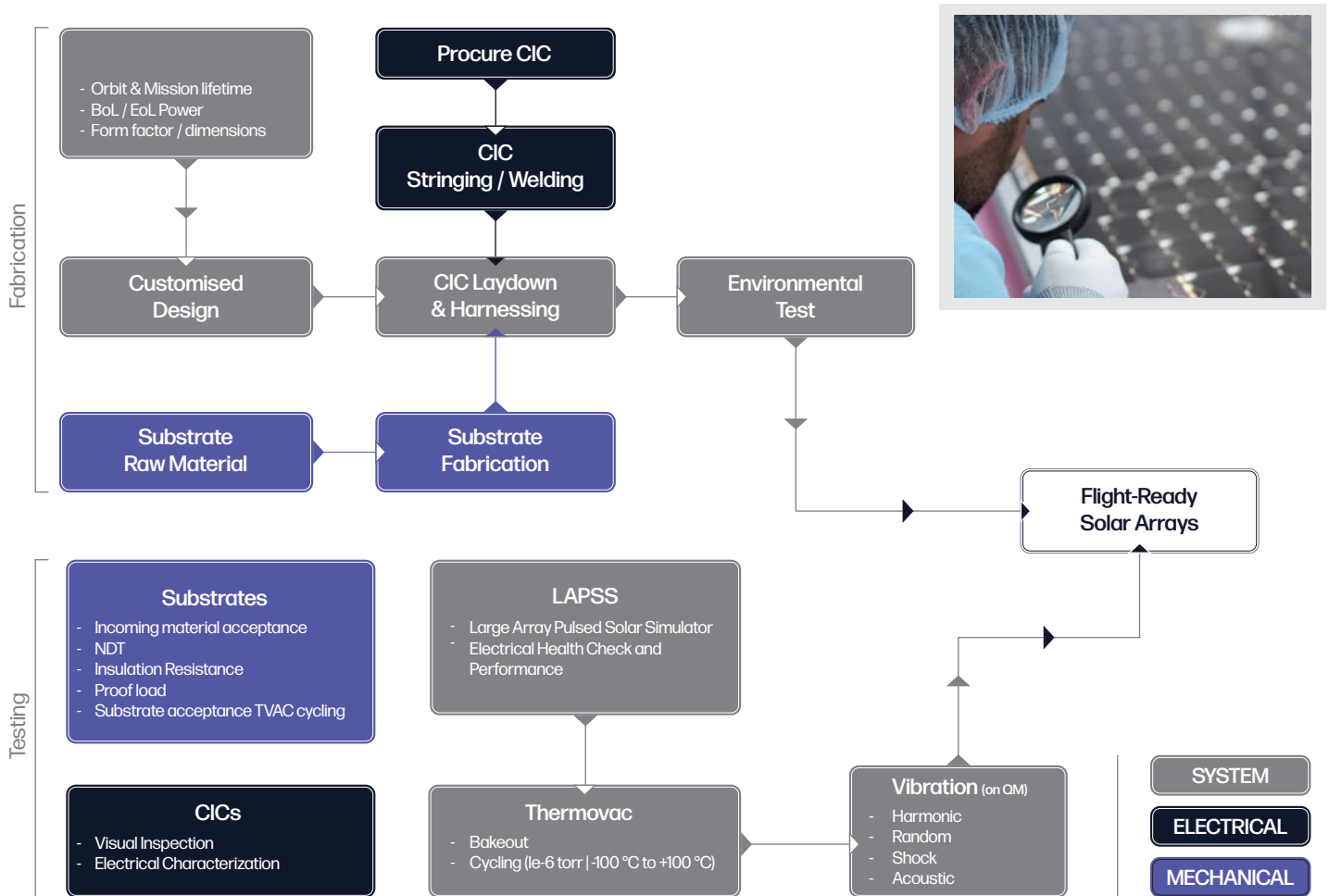
Type of Test	QT*	AT*
LAPSS/Flash	✓	✓
Electrical Health Check	✓	✓
Vacuum Bake-out	✓	✓
TVAC	✓	✓
Vibration	✓	
Mechanical Shock	✓	

*QT will be carried out on the qualification model
*AT will be carried out on the flight model



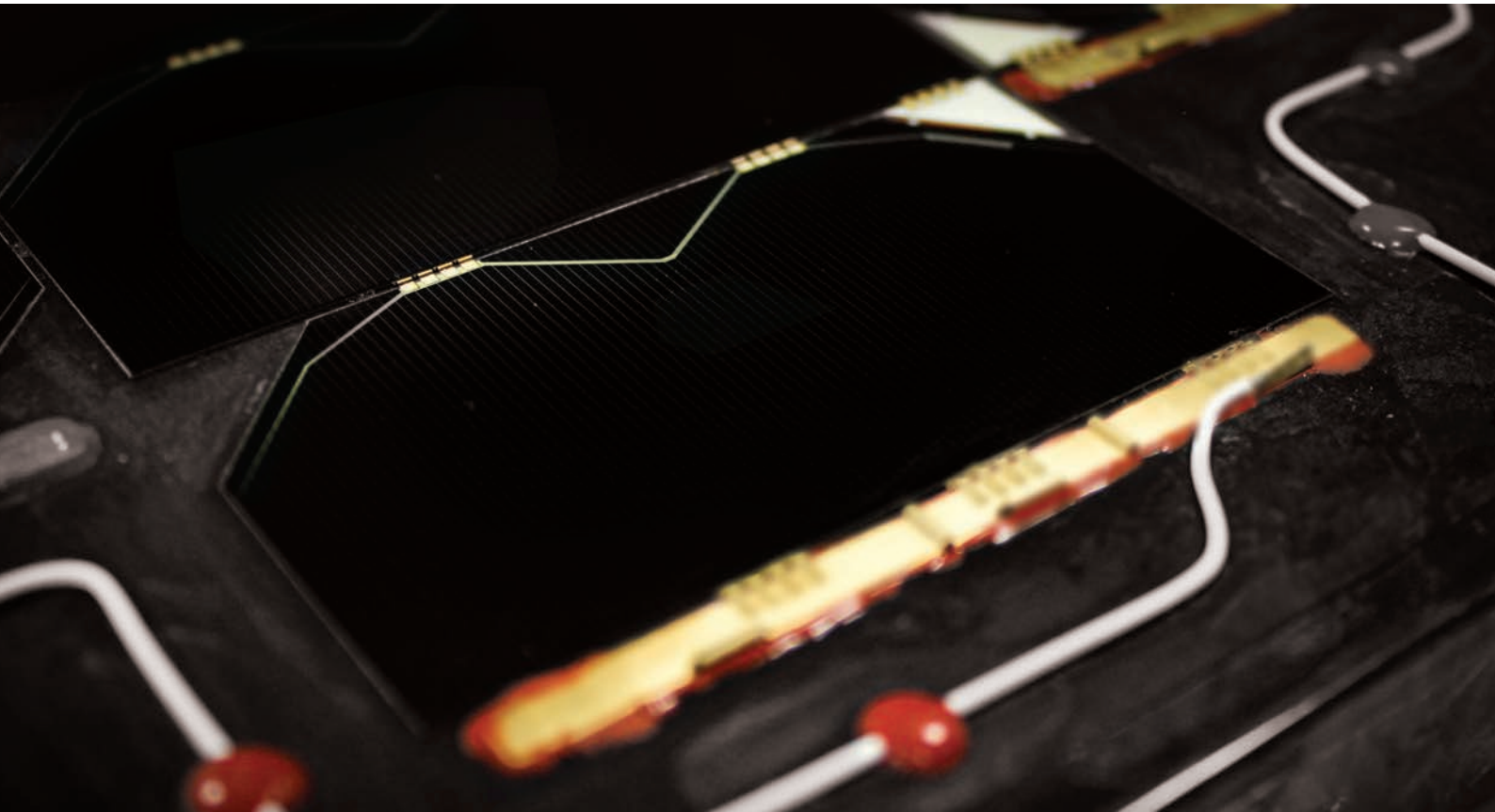
Fabrication & Testing Process

All processes adhere to ECSS or equivalent standards.



About

Dhruva Space Private Limited is a full-stack Space Engineering solutions provider, offering Satellites coupled with Earth stations and Launch services as an integrated solution or individually as a technology solution to power Space-based applications on Earth and beyond. The company's international presence includes our office Dhruva Space GmbH in Graz, Austria.



Powering your Spacecrafts

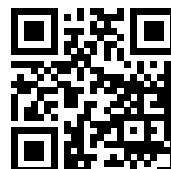


Still render of Dhruva Space's upcoming AIT facility to be located at TSIC Hardware Park II, Telangana, India

Contact

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more information