PRÜFTECHNIK GREENTESTING

CUBESAT QUALIFICATION WITH PTS

Testing. Verification. Ready for Deployment.

CUSTOMIZED & TAILOR-MADE TEST BENCH DEVELOPMENT

COMBINED TESTING

EVERYTHING DONE BY A SINGLE SOURCE

The Challenge

CubeSats must reliably withstand the extreme stresses encountered during launch and in orbit. Radical miniaturization, integration within short development cycles, and mission-specific requirements make it increasingly challenging to verify their operational readiness.

PTS delivers the solution

Tailored qualification through engineering, simulation, and testing to ensure mission success.

Thermal Shock

Protection against sudden and extreme temperature changes.

Mech. Shock & Vibration

Verification of mechanical loads during launch or separation.



Thermal Vacuum

Functional verification under vacuum conditions and representative temperature profiles.

EMC

Pre-compliance emission and immunity testing in accordance with all common standards, with expert consulting from development through to certification.

Functional Validation

Functional testing before, during, and after exposure to environmental conditions.

Mechanical Durability

Endurance testing of mechanisms, joints, connectors, and moving assemblies.

Engineering & Simulation

CFD, FEM, and thermal analyses to assess loads, temperatures, and structural behavior.

STANDARDS & TEST REFERENCES

ECSS-E-ST-10-03C | MIL-STD-810H | NASA GSFC-STD-7000 (GEVS)

PTS-ADVANTAGE

- ✓Validation Throughout Development
- ✓Combination of Simulation and Testing
- ✓Custom Test Systems for Deployables
- ✓Reduced Development Times and Qualification Costs

CONTACT

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LET'S DISCUSS YOUR MISSION