



ELECTRIC PROPULSION PERFORMANCE TEST SYSTEM - TORONEPP™ 2000

Electric Propulsion Performance Test System - ToronEPP™ 2000

ToronEPP™ 2000 is a high-capacity Electric Propulsion Performance Test System specifically engineered for the rigorous evaluation of Hall thrusters. By utilizing an expansive vacuum chamber and a versatile platform footprint, the system effectively mitigates background-pressure interference, ensuring high-fidelity propulsion measurements.

It is optimized to maintain stable, high-vacuum conditions even under significant xenon or krypton propellant flow. This makes it an ideal solution for R&D labs requiring a repeatable, data-driven environment for complex instrumentation and long-duration testing campaigns.

APPLICATIONS

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Applications

- Hall thruster evaluation under controlled vacuum conditions
- Performance mapping and comparative benchmarking across thruster designs
- Operating stability studies during higher propellant flow and extended runs
- Test development for electric propulsion programs and subsystem verification
- Repeatable lab testing where background pressure control impacts results



FEATURES

Electric Propulsion Performance Test System - ToronEPP™ 2000 Key Features

- S30408 stainless steel chamber construction supports corrosion resistance and long service life
- Larger vacuum chamber supports flexible Hall thruster setups and expanded diagnostics access
- Defined ultimate pressure performance supports stable baseline vacuum conditions
- Operating pressure capability maintained during higher propellant flow for repeatable testing
- Test platform supports stable installation and repeatable alignment during measurements

TECHNICAL SPECIFICATIONS

Electric Propulsion Performance Test System - ToronEPP™ 2000 Technical Specification

Specification	Details
Chamber Dimensions	φ 2000 mm × 4000 mm
Platform Dimensions	L 1200 mm × W 1000 mm
Ultimate Pressure	12 h $\leq 5.0 \times 10^{-5}$ Pa
Operating Pressure	$\leq 5.0 \times 10^{-3}$ Pa (with xenon gas flow rate of 5.41 mg/s, krypton gas flow rate of 5.5 mg/s, and argon pumping capability)



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