

# BHT-600

## Busek

### Hall Effect Thruster

**BUSEK**  
Space Propulsion  
and Systems

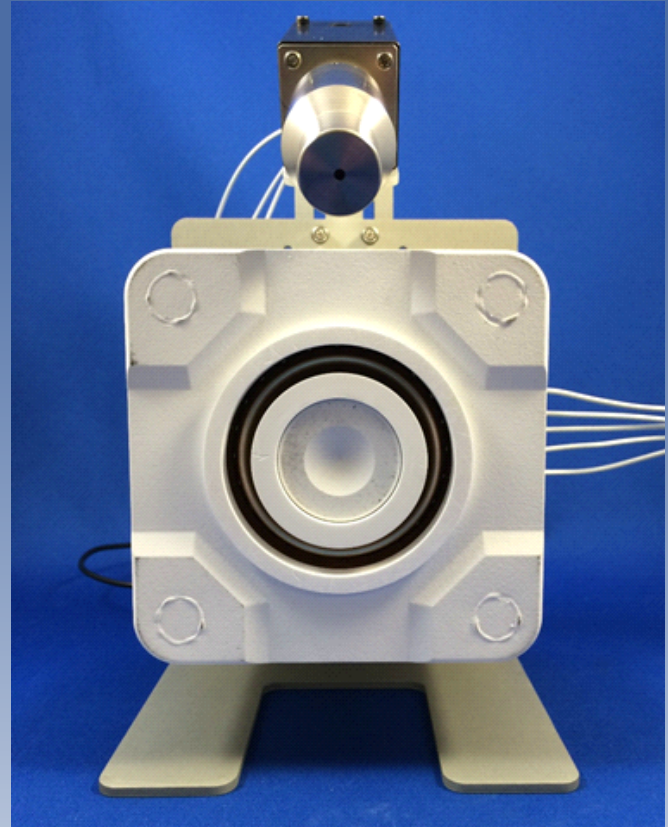
*High-performance and long life propulsion system designed for use with xenon and iodine propellants.*

The BHT-600 is a mature propulsion system featuring high performance and compatibility with flight proven heritage components (cathodes, PPU's, and feed systems). The BHT-600 is especially suited for ESPA-class spacecraft and offers high performance over long-life, as well as operation on xenon or iodine propellants. The thruster is TRL-6.

The BHT-600 combines precise control of magnetic field distribution and a short acceleration zone to provide high efficiency and high total impulse. The BHT-600 produces 39mN thrust at 600W power and a specific impulse of 1,500 seconds.

Busek provides Hall Effect thruster configurations in circular, clustered, racetrack, and nested arrangements. Busek Hall Effect thrusters operate with plasmas composed of various elements, from xenon to advanced high-energy solids. Busek research has developed metallic propellants for in-situ resource utilization that can dramatically benefit interplanetary missions.

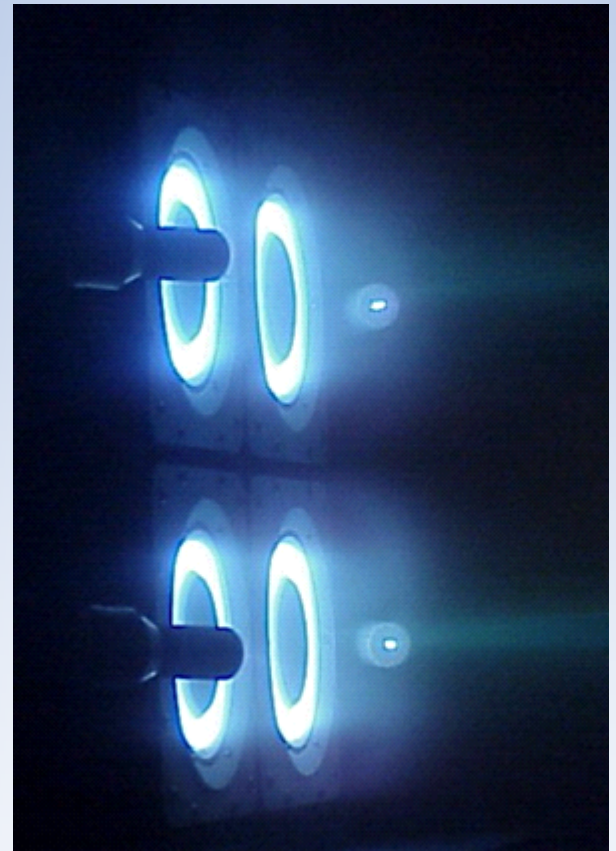
Busek provides complete and fully integrated Hall Effect thruster systems, including cathode, power processing unit, digital control unit, and propellant management systems.



**BHT-600 Hall Effect Thruster**

## ***BHT-600 System Technical Specifications***

<b>Throttle Range</b>	200W - 800W
<b>Nominal Discharge Power</b>	600W
<b>Thrust</b>	39 mN
<b>Specific Impulse</b>	1,500 seconds
<b>Propellant</b>	xenon, iodine, krypton
<b>Cathode</b>	BHC-1500
<b>Cathode Location</b>	External
<b>Thruster Mass</b>	2.6 kg
<b>Cathode Mass</b>	0.2 kg



**Multiple BHT-600 in a Cluster**

