BUSEK
Space Propulsion and Systems

# BHT-200

## Hall Effect Thruster

Outsized performance in a compact package.

### The first US Hall effect thruster in space. A mature propulsion system with flight heritage and high performance.

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The BHT-200 is a high performance and mature propulsion system with flight heritage aboard the Air Force Research Laboratory's TacSat-2 and FalconSat-5 satellites. The thruster is presently operating on-orbit on the FalconSat-6 satellite.

The BHT-200 is the first US-designed and US-built Hall Effect thruster used in-space on operational satellites, and is subject of numerous technical papers and journal publications. The BHT-200 is the most extensively studied US Hall Effect thruster, and the lessons learned from it have made our line of Hall thrusters the best in the industry.

Table: Standard Specifications

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|---|---|---|---|
| **Discharge Power:** | 200 W | **Thruster Mass:** | 0.98 kg |
| **Voltage:** | 250 VDC | **Cathode Mass:** | 0.12 kg |
| **Thrust:** | 13 mN | **Demonstrated Impulse:** | 74.88 kN-s |
| **Specific Impulse:** | 1390 seconds | **Predicted Total Impulse:** | >140 kN-s |
| **Propellants:** | Xenon, Iodine | | |

Busek provides complete and fully integrated Hall Effect thruster systems that work with the BHT-200, including cathode, power processing unit, digital control unit, and propellant management systems.

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