BHT-200
Busek
Hall Effect Thruster

BUSEK
Space Propulsion and Systems

High performance and mature propulsion system with flight heritage, and the first US Hall effect thruster in space.

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 produces 13mN thrust at 200W power and a specific impulse of 1,375 seconds.

The BHT-200 Hall Effect thruster is Busek's flagship commercial product and is the most extensively studied US Hall Effect thruster. 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 a patented design covered under "Tandem Hall Field Plasma Accelerator," US Patent No. 6,150,764.

Over 20 units of the BHT-200 have been built and delivered for broad range of characterization, plume studies, clustering and modeling efforts, including three flight systems: TacSat-2, FalconSat-5 and FalconSat-6. Busek recently delivered two iodine compatible versions of the thruster for MSFC iSat mission.

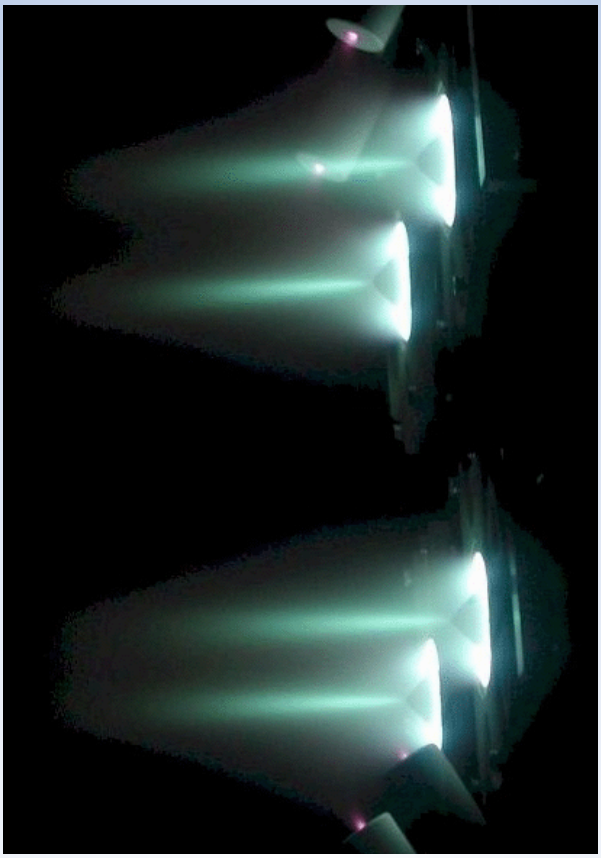
Busek provides complete and fully integrated Hall Effect thruster systems, including cathode, power processing unit, digital control unit, and propellant management systems.

BHT-200 Hall Effect Thruster

BHT-200 Integrated on FalconSat-5

BHT-200 System
Technical Specifications

Nominal Discharge Power	200W
Nominal Voltage	250 VDC
Thrust	13 mN
Specific Impulse	1,390 seconds
Demonstrated Propellants	xenon, iodine, krypton
Cathode	BHC-1500
Cathode Location	External
Thruster Mass	980 g
Cathode Mass	120 g



Multiple BHT-200 in a Cluster

Busek Co. Inc.
11 Tech Circle, Natick, MA 01760 | 508.655.5565 | info@busek.com

Copyright 2019, Busek Co. Inc. All Rights Reserved.