



Hall-Effect Electric Thrusters

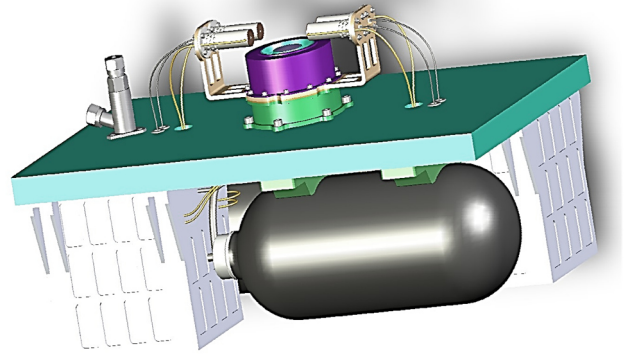
Low-Thrust

HET-5 / HET-10

Hall-effect thrusters of magnetic-layer type or stationary type generate thrust by creating and accelerating an ionized working gas over magnetic and electrostatic fields. The propulsion specialists of AQST USA develop and manufacture Hall-effect thrusters for thrust levels between 2 mN and 100 mN.



Cluster of Hall-Effect Thruster Models HET-5



Electric Propulsion System based on HET-10

Based on its thrusters HET-5 and HET-10, AQST USA provides complete electric space propulsion systems including propellant feed systems, power processing units and control interface units. AQST USA has also experience in building propulsion systems using clustered configurations of thrusters.

Parameter	HET-5	HET-10
Propellant	Xenon	Xenon
Thrust	5 mN	10 mN
Specific Impulse	950 s	1,070 s
Power Range	80 - 140 W	160 - 230 W
Nominal Power	110 W	180 W
Life Cycle	2,500 h	2,500 h
Cathode Start Time (Classic / Heaterless)	3 min / 0.1 sec	3 min / 0.1 sec
Size (Diameter x Length) w/o Cathode	73 x 52 mm	78 x 60 mm
Mass	470 g	520 g
Development Status	TRL 9	TRL 9