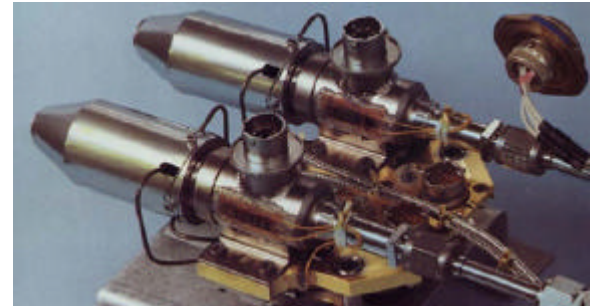


MRE-1.0 Monopropellant Thruster

For satellite attitude and velocity control.

Technical Data

| | |
|--|-------------------|
| Propellant | Hydrazine |
| Thrust at maximum operating pressure | 5.0 N at 400 psia |
| Thrust at 275 psia inlet pressure | 3.4 N |
| Steady state specific impulse at 275 psia inlet pressure | 218 sec |
| Operating pressure range | 8-565 psia |
| Life (demonstrated) | |
| • Maximum throughput | 544 kg |
| • Maximum cycles | 457,849 |
| Thrust valve power at 28 Vdc | 15 W |
| Weight (STM/DTM) | 0.5 kg/1.0 kg |
| Envelope (width x length) | 114mm x 188mm |



Spacecraft Programs

DTM - Pioneer, HEAO, TDRSS, FLTSATCOM, EOS, SSTI, SOHO
TOMS, KOMPSAT, ROCSAT, STEP4, STEP1