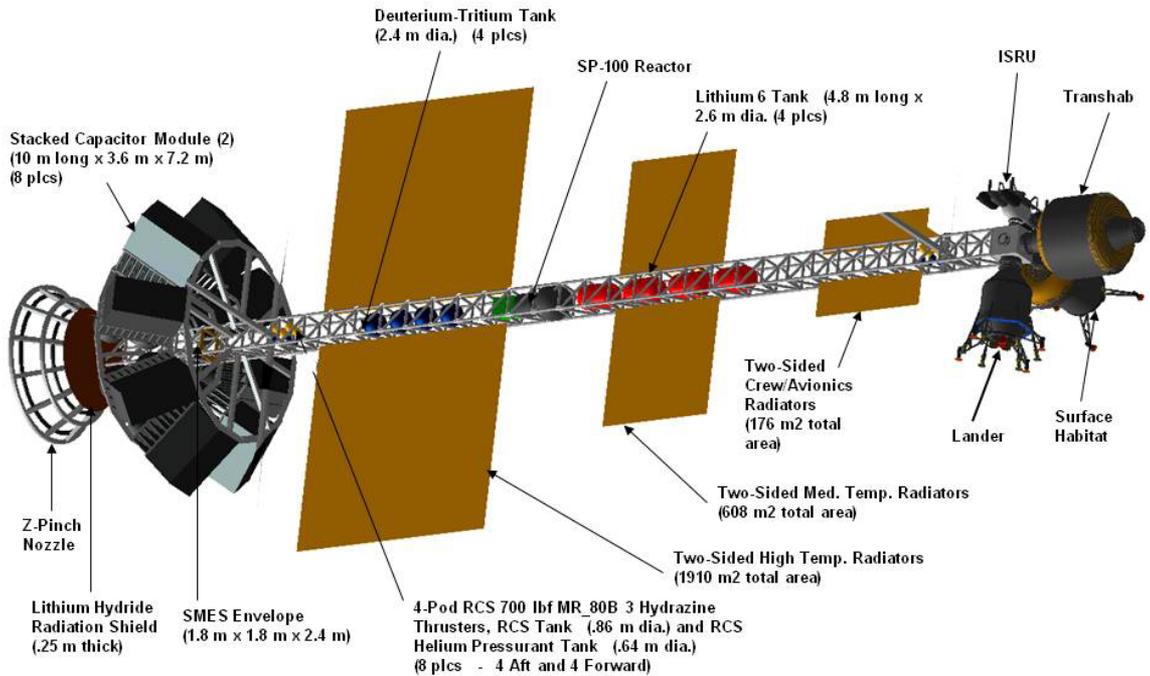


Z-pinch/Dense Plasma Focus Thermo-Nuclear Propulsion System

Concept for Z-Pinch Fusion Propulsion System & Vehicle
Concept for Solar System Exploration

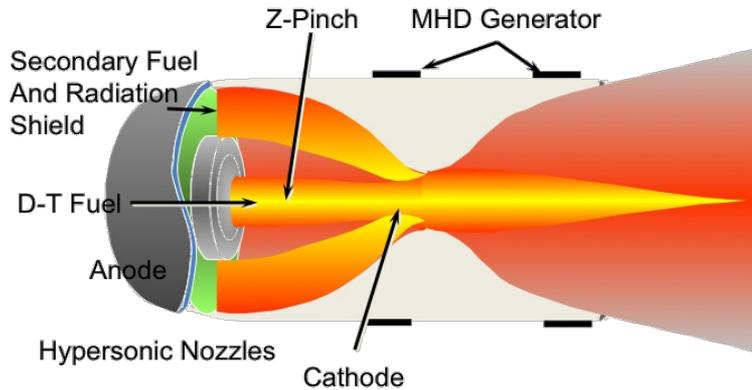


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Vehicle concept for crewed mission to Mars with fast transfer and 150 mt payload delivery with Z-pinch fusion propulsion system

Z-pinch/dense plasma focus fusion



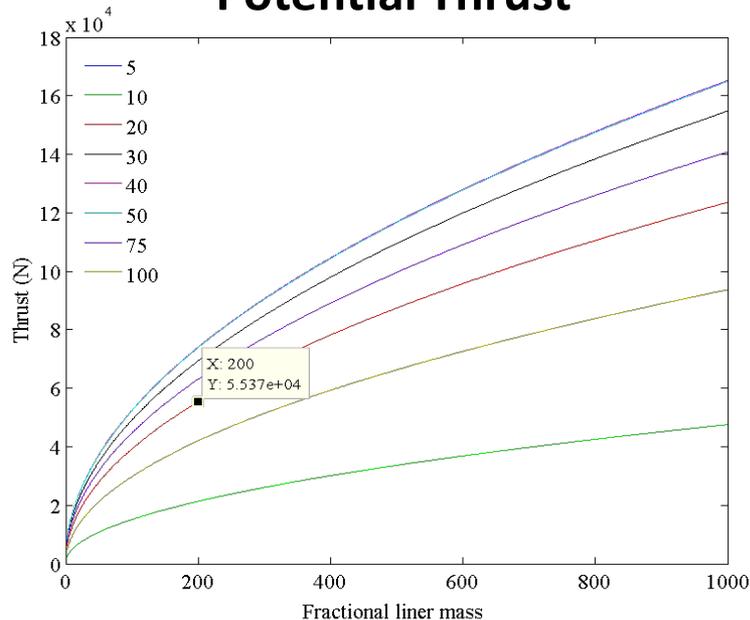
Deuterium gas is injected hypersonically into chamber

Pulsed Current discharges through gas (~100 MA)

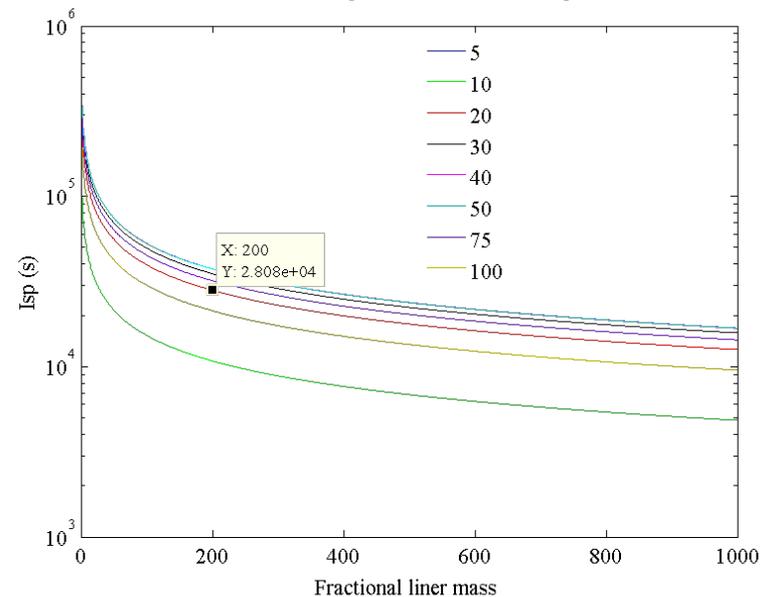
Induced Fields interact with current to dynamically compress gas to thermonuclear temperatures

Plasma rapidly expands against magnetic nozzle, generating thrust

Potential Thrust

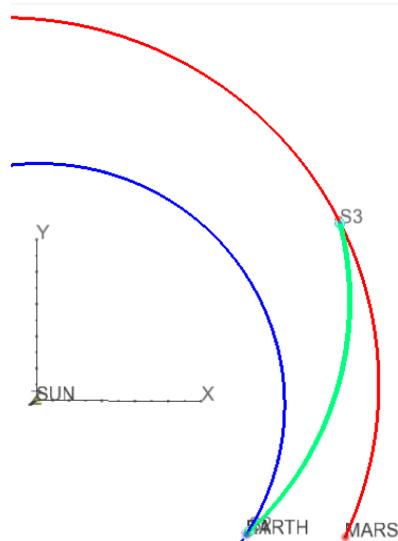


Potential Specific Impulse



Missions Enabled

Missions to Mars, Jupiter, and Beyond can be achieved with significantly reduced trip times when compared to state of the art chemical propulsion



90 day transfer from Earth to Mars

