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