

PERFORMANCE INFORMATION

OVERALL SYSTEM DEFINITION

Monopropellant Thruster Options (Thrust and Isp)	450N	310s
Reaction Control Performance Options (Thrust and Isp)	1N, 5N, 10N, 22N	250 - 300s
Propellant	Chemical Bipropellant	
System Mass	130 kg	
Longest Continuous Firing	60 min / Maneuver Recommended	
Delivery Timeline	12 Months from Contract Start	



ABOUT US

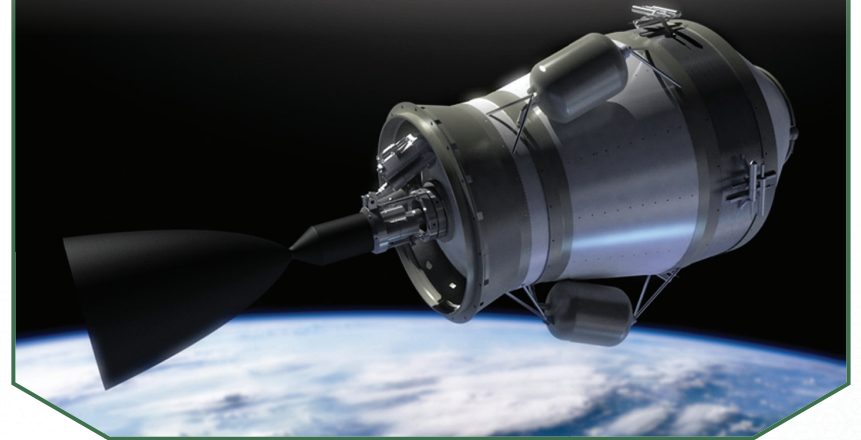
Tesseract was founded in 2017.
We're a team of world class rocket builders
located in the Bay Area, CA.
All U.S. Citizens.



TESSERACT

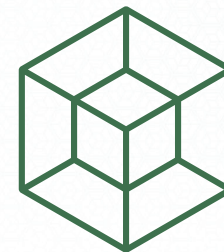
WWW.TESSERACT.SPACE
CONTACT US: INFO@TESSERACT.SPACE

POLARIS SPACE TUG



REAL HARDWARE

Polaris – Our high-performing, green
propulsion system for deep space missions,
constellation deployment, and more.



TESSERACT

MODERN SPACE PROPULSION

POLARIS — ORBITAL TRANSFER VEHICLE

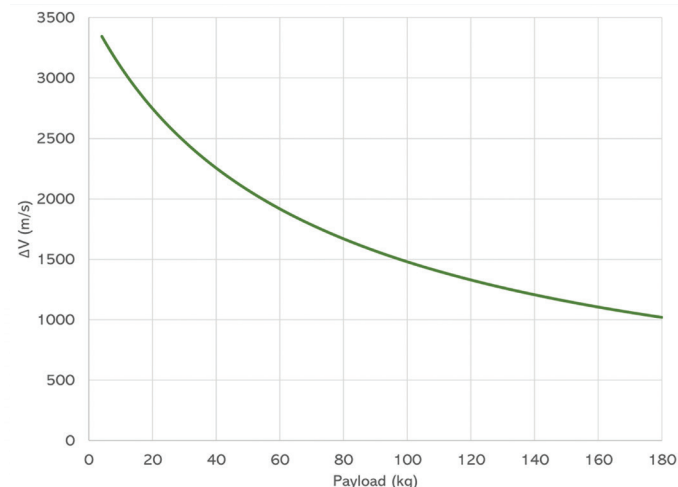
Polaris is a fully integrated propulsion system optimized for highly energetic missions. Applications include launch vehicle upper stages, apogee kick for large spacecraft, and beyond Earth missions.



POLARIS VEHICLE SPECIFICATIONS

Mass	130 kg
Total Impulse	268 kN·s
Max Diameter	0.54 m
Height	1.12 m

EXAMPLE MISSION CAPABILITIES [ON ROCKET LAB - ELECTRON]



DESTINATION	PAYLOAD (ELECTRON)
Geostationary Transfer Orbit	45.5 kg
Geosynchronous Earth Orbit	9.3 kg
Trans-Lunar Injection	27 kg
Low Lunar Orbit (110km)	9.7 kg
Earth Escape (C3=0)	25.2 kg
Trans-Mars Injection	13.4 kg
Mars Orbit (200kmX5000km)	4.0 kg

GET TO WHERE YOU NEED TO GO, AND FAST

Our chemical propulsion technology enables missions to get to orbit quickly and affordably. Whether it's through the Van Allen belts, to your revenue generating longitude, or to relocate and maneuver, our technology offers a time optimal solution.