Green Bipropellant Thrusters

Lyra 1

Status: Development Testing

Design Specifications

Thrust	1.0 N	0.22 lb_f
Specific Impulse	>2745 m/s	>280 sec
Minimum Impulse Bit	2.7 mN·s	$6.0\times10^{-4} lb_f$·s
Mass	0.24 kg	0.53 lb_m
Cycle Life		100,000

Lyra 22

Status: Development Testing

Design Specifications

Thrust	22 N	5.0 lb_f
Specific Impulse	>2942 m/s	>300 sec
Minimum Impulse Bit	110 mN·s	0.025lb_f·s
Mass	0.59 kg	1.3 lb_m
Cycle Life		100,000

Rigel 500

Status: Development Testing

Design Specifications

Thrust	500 N	112 lb_f
Specific Impulse	>2942 m/s	>300 sec
Mass	3.5 kg	7.7 lb_m

Services

Custom Green Turn-Key Systems

Tesseract can supply custom turn-key spacecraft propulsion systems based on our existing green thrusters, but also including all propellant tankage, plumbing, control electronics, and ancillary structure.

Bespoke Hardware Development

Our team has experience with chemical propulsion across a range of thrust classes and propellant types, both storable and cryogenic. We can offer flexible options for licensing and ownership of the design intellectual property, and can provide either development only, or development and manufacturing options.