

NEWSPACE MARKET · SECTOR CATALOGUE

Electric Propulsion

Every unit we list in this sector — specifications, manufacturers and where to ask for a quote. Compiled from the live NewSpace Market catalogue.

149

PRODUCTS

52

MANUFACTURERS

18

COUNTRIES

46

WITH DATASHEETS

newspacemarket.com/catalogues/electric-propulsion/

as of 2 September 2026

What is inside

This catalogue lists **149 electric propulsion products** offered by **52 manufacturers** across **18 countries**. Of those, 46 carry a manufacturer datasheet and 5 publish a price; the rest are quoted on request — normal in this market, where configuration drives cost.

Entries are grouped alphabetically by manufacturer. Every product links back to its page on [newspacemarket.com](#), where you will find the full specification, the datasheet and a quote form that reaches the manufacturer directly.

Compiled 2 September 2026 from the live catalogue. Specifications are as published by the manufacturers; we normalise units but do not re-measure. Where a figure looked implausible it was left out rather than guessed.

Manufacturers by country

United States 17

France 5

United Kingdom 5

Italy 3

Germany 2

Russia 2

South Africa 2

Spain 2

Ukraine 2

Singapore 1

Japan 1

Finland 1

India 1

Austria 1

China 1

Australia 1

Sweden 1

Israel 1

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Ablation Jet Engine	Yuzhnoye Design Bureau	Ukraine	Working medium: Fluoroplastic (PTFE)	on request
AEPS Advanced Electric Propulsion System	Aerojet Rocketdyne (L3Harris)	United States	Power level: 12 kW	on request
AEPS Advanced Electric Propulsion System — Hall-Effect Ion Thruster for NASA Gateway	Lanzo Batteries	—	—	on request
Air-Breathing Electric Propulsion (ABEP) Thruster	Kreios Space	Spain	Satellite platform lifetime: >7 years	on request
Air-Scooping Electric Thruster (ASET) — Air-Breathing VLEO Propulsion	Viridian Space	United States	Operating altitude (VLEO): 150–300 km	on request
AIS-gPPT3-1C Series Integrated Propulsion Module	Applied Ion Systems	United States	Thruster type: AIS-gPPT3-1C Micro Pulsed Plasma Thruster	\$2 500
AIS-VAT0-DEMO Educational DIY Micro Vacuum Arc Thruster Kit	Applied Ion Systems	United States	Type: Micro Vacuum Arc Thruster Demo DIY Kit	\$570
AIS-VAT1-PQ	Applied Ion Systems	United States	Type: Micro Vacuum Arc Thruster	\$3 500
Ammonia Jet Propulsion System (APS)	Yuzhnoye Design Bureau	Ukraine	Propellant: Ammonia	on request
Apollo Constellation Engine	Apollo Fusion (Astra)	United States	Thruster type: Hall-effect thruster	on request
Apollo Constellation Engine (ACE) Ion Thruster	Apollo Fusion (Astra)	United States	Type: Hall-effect ion thruster	on request
Arka Hall Effect Thruster Series	Bellatrix Aerospace	India	Arka 50 - thrust: 3 mN	on request
ARM-O (Aurora Resistojet Module for Orbit Control)	Aurora Propulsion Technologies	Finland	Propellant: Water	on request
ASCEND Propulsion System	Ascend Beyond Space	United States	Compatible battery types: Li-ion, LiPo	on request
ASET Air-Scooping Electric Thruster	Viridian Space	United States	Propulsion type: Air-breathing electric thruster (ABEP)	on request
Astra Satellite Engine (ASE)	Astra Space	United States	Propellant: Xenon (Xe) or Krypton (Kr)	on request
Aurora Hall-effect Propulsion System	Orbion Space Technology	United States	Technology: Hall-effect thruster (HET), magnetically shielded	on request
Aurora Resistojet Module for Orbit Control (ARM-O)	Aurora Propulsion Technologies	Finland	Thrust-to-power need: 10x more than FEEP	on request
BET-MAX Electrospray Thruster System	Busek Co.	United States	Thruster module: BET-300P passively-fed electrospray thruster, 125 cm ³	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
BHT-100	Busek Co.	United States	Discharge power: 100 W	on request
BHT-100	Busek Co.	United States	Input Power: 100 W	on request
BHT-1500	Busek Co.	United States	Nominal discharge power: 1,500 W	on request
BHT-200	Busek Co.	United States	Specific impulse: 1390 seconds	on request
BHT-20K	Busek Co.	United States	Discharge power: 20,000 W	on request
BHT-350	Busek Co.	United States	Nominal discharge power: 350 W	on request
BHT-6000	Busek Co.	United States	Nominal discharge power (High Thrust Mode): 5,000 W	on request
BIT-3 RF Ion Thruster	Busek Co.	United States	System power: 56-75 W	on request
CHIPS — CubeSat High Impulse Propulsion System	CU Aerospace	United States	Thruster type: Warm-gas resistojet (superheater)	on request
Cluster of IFM Nano Thruster for Smallsats	ENPULSION GmbH	Austria	Manufacturer: ENPULSION	on request
Correction Unit (CU) based on Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W and XFC Unit	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO	on request
DeltaX Electro spray Thruster	DeltaX Propulsion	United States	Thruster type: Electro spray (electric propulsion)	on request
Dual-mode Stationary Plasma Thruster with a Nominal Discharge Power of 2500/1350 W	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO.	on request
DXP Electro spray Thruster	DeltaX Propulsion	United States	Specific impulse (Isp): ~3,000 s	on request
Electric Propulsion	SITAEL S.p.A.	Italy	Hall effect thruster power range: ~100 W up to tens of kW	on request
Electric Propulsion System	OHB Sweden AB	Sweden	—	on request
Electric Propulsion Systems	ATI Space (Advanced Technology Institute)	Japan	Types: PPT, Hall effect, ADN green, nanoFEEP	on request
Electro spray Thrusters	Busek Co.	United States	System Power: 12 W - 14 W (24 W max)	on request
ENPULSION NANO Thruster (IFM Nano Thruster)	ENPULSION GmbH	Austria	Thrust range: 0.01–0.35 mN	on request
EPSylon	OHB Sweden AB	Sweden	Propellant: Xe	on request
ExoMG Hall Effect Thruster	Exotrail	France	—	on request
FalconSat-3	Busek Co.	United States	—	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Filament pulsed plasma thruster (FPPT)	CU Aerospace	United States	Minimum specific impulse: 3,500 s	on request
FireStar Foundation Drive	Miles Space / RocketStar	United States	Propellant: H2O (filled as liquid; liquid or solid during storage/use)	on request
FireStar Fusion Drive	Miles Space / RocketStar	United States	Base thruster: FireStar Foundation Drive (water-fueled pulsed plasma)	on request
FPPT — Fiber-Fed Pulsed Plasma Thruster	CU Aerospace	United States	Thruster type: Pulsed plasma thruster (PPT) with electromagnetic thrust vec...	on request
FPPT Fiber-Fed Pulsed Plasma Thruster	CU Aerospace	United States	Pulse duration: 10 microseconds	on request
GO-2 Electric Propulsion System	Morpheus Space	Germany	Total thrust range: 5 microN - 400 microN	on request
Hall Effect Thrusters (HT-100/HT-400/HT-5k)	SITAEL S.p.A.	Italy	Power range: ~100 W up to tens of kW	on request
Hall Thruster Systems	aliena	Singapore	Spacecraft bus input: 25 - 36 V	on request
Hall Thrusters	aliena	Singapore	—	on request
Hall Thrusters	Busek Co.	United States	—	on request
Hall Thrusters	Busek Co.	United States	—	on request
Halo12 Kit	Voyager Technologies	United States	Thruster type: Hall-effect (Halo12)	on request
IHET-300 Hall Effect Thruster	Rafael Advanced Defense Systems - Space Division	Israel	—	on request
Integrated Thruster Unit 13	Glavkosmos	Russia	Purpose: ITU is intended for creating the required thrust forces when formi...	on request
Integrated Thruster Unit ITU-5000M	Glavkosmos	Russia	Purpose: ITU-5000M is intended for creating the required thrust forces when...	on request
Ion Propulsion Components and Test Equipment	ION-X	France	Products: Thruster grids, discharge chambers, hollow cathode neutralizers, ...	on request
Iris Propulsion Module / Propulsion Kit	ExoTerra Resource	United States	Radiation tolerance (Iris): 30 kRad TID	on request
Jal Microwave Plasma Thruster	Bellatrix Aerospace	India	Thrust (Jal 5000): 300 mN	on request
Jinwu Electric Propulsion System	Hongqing Technology (鸿擎科技)	China	Propellant: Argon (Ar)	on request
LISA Pathfinder First Flight Electrospray Thruster	Busek Co.	United States	—	on request
Low Power Stationary Plasma Thruster	Glavkosmos	Russia	Purpose: Spacecraft (S/C) station keeping.	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Low Power Stationary Plasma Thruster with 50 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Purpose: Spacecraft (S/C) station keeping.	on request
Low Power Stationary Plasma Thruster with 70 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Purpose: Spacecraft position keeping.	on request
Maxwell Block 3 RF Plasma Thruster	Phase Four	United States	Dry mass: 5.9 kg	\$250 000
Maxwell RF Ion Thruster	Phase Four	United States	Propellant: Xenon or Krypton (inert gas)	on request
MESSE Magnetically Enhanced Small Satellite Engine	aliena	Singapore	System power: 350 W (nominal)	on request
Metal Composite Xenon Tank XT-200	Glavkosmos	Russia	Year of release: 2015	on request
Metal Composite Xenon Tank XT-350	Glavkosmos	Russia	Purpose: In apogee electric propulsion engine units to provide spacecraft o...	on request
Micro R ³	ENPULSION GmbH	Austria	Dynamic Thrust Range: 0.5 - 1 mN	on request
Modified Low Power Stationary Plasma Thruster with 50 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Purpose: Spacecraft (S/C) station keeping.	on request
Modified Low Power Stationary Plasma Thruster with 70 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Purpose: Spacecraft (S/C) station keeping.	on request
Modified Stationary Plasma Thruster with a Discharge Power of up to 5 kW	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO.	on request
Modified Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO.	on request
Monofilament Vaporization Propulsion (MVP)	CU Aerospace	United States	Specific Impulse: 66 s	on request
MoonRanger — 5 kW Hall-Effect Thruster	Pulsar Fusion	United Kingdom	Power: 5–7 kW	on request
Multi-Modal Electric Propulsion Engine (MEPE)	Aurora Propulsion Technologies	Finland	Form factor: 5U	on request
MUSIC Electric Propulsion System	aliena	Singapore	Type: Multi-stage Hall thruster, modular design	on request
MUSIC Flight-ready 2nd gen qualified 2026	aliena	Singapore	Form factor: 4U	on request
MUSIC Hollow Cathode	aliena	Singapore	Type: Heated, ceramic encapsulated	on request
Nano R ³	ENPULSION GmbH	Austria	–	on request
NanoTILE CubeSat Propulsion Module	Accion Systems	United States	Form factor: 0.3U, ~100 g	on request
ND-25TC Neumann Drive — Low-Power Nanosatellite Thruster	Neumann Space	Australia	Thruster type: Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT)	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
ND-50 Neumann Drive — Pulsed Cathodic Arc Thruster	Neumann Space	Australia	Thruster type: Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT)	on request
NEXT-C Ion Propulsion System	Aerojet Rocketdyne (L3Harris)	United States	Power level: 7 kW	on request
Next-Generation Argon Propellant Electric Propulsion System	Hongqing Technology (鸿擎科技)	China	—	on request
Nexus	ENPULSION GmbH	Austria	—	on request
NPT30-I2	ThrustMe	France	—	on request
NPT30-I2 Iodine Ion Thruster for CubeSats and SmallSats	ThrustMe	France	—	on request
nupro Electro spray Thruster	Morpheus Space	Germany	Thruster type: Electro spray (ionic liquid)	on request
Orbital Arc Thruster and PPU	Orbital Arc	—	Expected dry mass (thruster + PPU combined): < 600 g	on request
PBH-100 Hall Effect Thruster	Pale Blue	—	Power: 110 - 180 W	on request
PBI Water Ion Thruster	Pale Blue	—	Power: < 60 W	on request
PBR-30	Pale Blue	—	Power: 10 - 35 W	on request
Plugim Electro spray Thruster	XIROI	Spain	Figures are: Vendor-stated performance requirements (design targets), not m...	on request
Pocket Rocket Vacuum Arc Thruster	Solid State Propulsion	South Africa	Maximum thrust: 200 uN	on request
PPSU Plasma Propulsion Selection Unit	EREMS	France	Function: Switches thruster/cathode signals from 2 PPU's to a single thruster	on request
Pulsed Plasma Rocket (PPR)	Howe Industries	United States	Thrust: 100,000 N (100 kN)	on request
PureLine Topaz/THORs Power Processing Unit	Airbus Defence and Space	France	Design life: 10 years in LEO	on request
R-200 Electric Propulsion System (EPS)	Rafael Advanced Defense Systems - Space Division	Israel	—	on request
R-200 Hall Effect Thruster	Rafael Advanced Defense Systems - Space Division	Israel	—	on request
R-800 Electric Propulsion System (EPS)	Rafael Advanced Defense Systems - Space Division	Israel	—	on request
R-800 Hall Effect Thruster	Rafael Advanced Defense Systems - Space Division	Israel	—	on request
REGULUS Electric Propulsion	T4i - Technology for Propulsion and Innovation	Italy	Propellant: Iodine (I2)	on request
RF Ion Thrusters	Busek Co.	United States	System Power: 56-80 W	on request
Rogue	Magdrive	United Kingdom	Integrated system fits inside: single 2U cubesat	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
RUDRA Hall Effect Thruster	Bellatrix Aerospace	India	–	on request
Satellite Engine	Astra Space	United States	Specific impulse: ~1,300-1,400s	on request
Scalable Propulsion Portfolio	ENPULSION GmbH	Austria	–	on request
SEPTIR	Howe Industries	United States	Specific impulse: 3,048 s	on request
SpaceVan Electric Propulsion Transfer System	Exotrail	France	Propulsion type: Hall-effect (xenon) electric propulsion	on request
spaceware™ Hall Effect Thruster	Exotrail	France	Thrust: 2.5 mN	on request
SPS-100 Propulsion System	Space Electric Thruster Systems (SETS)	Ukraine	Total power consumption: Up to 1750 W	on request
SPS-40 Propulsion System	Space Electric Thruster Systems (SETS)	Ukraine	Total power consumption: 300-600 W	on request
ST-100 Hall Thruster	Space Electric Thruster Systems (SETS)	Ukraine	Consumption power: 800-1500 W	on request
ST-25 Hall Thruster	Space Electric Thruster Systems (SETS)	Ukraine	Consumption power: 100-250 W	on request
ST-40 Hall Thruster	Space Electric Thruster Systems (SETS)	Ukraine	Consumption power: 250-600 W	on request
STAR-Water-micro — Water Resistojet for Microsatellites	OhmSpace	Italy	Technology: High-temperature water resistojet	on request
STAR-Water-nano — Water Resistojet for Nanosatellites	OhmSpace	Italy	Technology: High-temperature water resistojet (2,400 K)	on request
STAR-X — Xenon Resistojet for GEO Reaction Control	OhmSpace	Italy	Technology: High-temperature xenon/krypton resistojet	on request
Stationary Plasma Thruster with a Discharge Power of up to 25 kW	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO.	on request
Stationary Plasma Thruster with a Discharge Power of up to 5 kW	Glavkosmos	Russia	Purpose: Spacecraft station keeping.Spacecraft orbit raising to GEO	on request
Stationary Plasma Thruster with a Discharge Power of up to 6 kW	Glavkosmos	Russia	Purpose: Spacecraft station keeping. Spacecraft orbit raising to GEO	on request
Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W	Glavkosmos	Russia	Year of release: 1985	on request
SUB-KILOWATT HALL THRUSTERS	Busek Co.	United States	–	on request
T5 Ion Thruster	QinetiQ Space	United Kingdom	Grid diameter: 10 cm	on request
T6 Ion Thruster	QinetiQ Space	United Kingdom	Grid diameter: 22 cm	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
TacSat-2	Busek Co.	United States	–	on request
Thrust Module (TM) Based on Thruster with 70 mm Diameter of the Accelerating Channel with Xenon Flow Controller Unit (XF)	Glavkosmos	Russia	Purpose: Spacecraft (S/C) station keeping	on request
ThrustMe In-Space Propulsion Solutions	ThrustMe	France	Flight heritage: World's first in-orbit demonstration of iodine-fuelled ele...	on request
TILE Ionic Liquid Electrospray Thruster	Accion Systems	United States	Propellant type: Ionic liquid (solid-state chip, no pressurized gas)	on request
TRINIT-ION Gridded Ion Thruster	Blue Orbit Space Systems	Germany	Propellant: Argon, Nitrogen	on request
TRINITY ABE Air Breathing Thruster	Blue Orbit Space Systems	Germany	Propellant: Argon, Nitrogen	on request
TRINITY HET Hall Effect Thruster	Blue Orbit Space Systems	Germany	Propellant: Argon, Nitrogen	on request
TunaTank Thruster	SteamJet Space	United Kingdom	Wet mass: ~0.9 kg	£54 990
URA HET (Hall-effect Thruster) – WETHET / AquaHET	URA Thrusters	United Kingdom	Model: WETHET-2000	on request
VACCO CubeSat Propulsion and ChEMS Flow Control Modules	VACCO Industries	United States	Technology: ChEMS – Chemically Etched Micro Systems (patent #6,334,301), ti...	on request
Vacuum Arc Thruster (VAT) Electric Propulsion System	Hypernova Space Technologies	South Africa	Thruster type: Vacuum Arc Thruster (VAT) – plasma electric propulsion	on request
Warlock	Magdrive	United Kingdom	Integrated system size: 2U cubesat	on request
Water Hall-effect Thruster	Pale Blue	–	Power: 600 W	on request
Xenon Feed Unit (XFU)	ISS Reshetnev	Russia	–	on request
Xenon Flow Controller for Low Power Plasma Thruster with 50 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Design life: 10 years	on request
Xenon Flow Controller for Low Power Plasma Thruster with 70 mm Diameter of the Accelerating Channel	Glavkosmos	Russia	Purpose: Xenon Flow Controller provides the required propellant flow rate t...	on request
Xenon Flow Controller for Stationary Plasma Thruster with a Discharge Power of up to 5 kW	Glavkosmos	Russia	Year of release: 1996	on request
Xenon Flow Controller for Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W	Glavkosmos	Russia	Purpose: Xenon Flow Controller provides the required propellant flow rate t...	on request
XFC unit	Glavkosmos	Russia	Purpose: Is intended for supplying and regulation of the total flow rate an...	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
XFS (Xenon Feed System)	Space Electric Thruster Systems (SETS)	Ukraine	Inlet pressure: Up to 180 bar	on request
XR-5 Hall Thruster System	Aerojet Rocketdyne (L3Harris)	United States	Type: Hall effect thruster subsystem	on request
μCAT Propulsion System	aliena	Singapore	–	on request

Products by manufacturer

US startup developing TILE electro spray propulsion chips for nanosatellites — ultra-compact, modular electric propulsion scaled from CubeSats to larger platforms.

ACCION SYSTEMS

NanoTILE CubeSat Propulsion Module

Accion Systems' NanoTILE miniaturized electro spray propulsion module for 1U–6U CubeSats, providing orbit maintenance, attitude control, and deorbit capability in a 0.3U form factor

Form factor	0.3U, ~100 g
Target platform	1U–6U CubeSats
Thrust range	0.01–0.1 mN
Specific impulse	800–1,500 s
Power	0.5–3 W

price on request

ACCION SYSTEMS

TILE Ionic Liquid Electro spray Thruster

Accion Systems' TILE electro spray ion thruster — a propellant-free, solid-state thruster for CubeSats and small satellites using ionic liquid propellant in a film.

Propellant type	Ionic liquid (solid-state chip, no pressurized gas)
Thrust range	0.05–1 mN per module
Specific impulse	800–2,000 s
Power	1–20 W
Safety	No pressurized tanks, no valves, no moving parts – rideshare safe

price on request

Aerojet Rocketdyne (L3Harris)

Major US propulsion company (now part of L3Harris); RL10, RS-25/SLS engines, satellite thrusters, and solid rocket motors; 75+ years heritage powering US launch vehicles.



AEROJET ROCKETDYNE (L3HARRIS)

AEPS Advanced Electric Propulsion System

12 kW Hall thruster developed with NASA Glenn and JPL; three units will provide primary propulsion for the lunar Gateway Power and Propulsion Element.

Power level	12 kW
Type	Hall effect electric propulsion thruster
Development partners	NASA Glenn Research Center, NASA Jet Propulsion Laboratory
Status	Development testing completed 2021; qualification testing started at NASA Glenn 2023
Application	Three thrusters as primary propulsion for the lunar Gateway Power and Propulsion Element

price on request



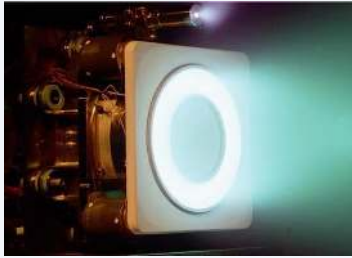
AEROJET ROCKETDYNE (L3HARRIS)

NEXT-C Ion Propulsion System

7 kW gridded ion propulsion system based on NASA Glenn technology, flown as a technology demonstration on NASA's DART mission.

Power level	7 kW
Type	Gridded ion propulsion system
Technology basis	NASA Glenn Research Center mission-proven technology
Flight heritage	NASA DART mission, launched 2021 (technology demonstration)

price on request



AEROJET ROCKETDYNE (L3HARRIS)

XR-5 Hall Thruster System

Flight-proven Hall effect thruster subsystem used on AEHF, Northrop Grumman GEOStar-3 and Mission Extension Vehicles, and Lockheed Martin LM2100 satellites.

Type	Hall effect thruster subsystem
Status	Flight proven, in service
Platforms	AEHF constellation, Northrop Grumman GEOStar-3 and Mission Extension Vehicles, Lockheed Ma

price on request

Airbus Defence and Space

FRANCE · 2014 · 1 PRODUCT

Airbus Defence and Space designs and manufactures satellites, spacecraft equipment, and provides related services for telecommunications, navigation, Earth observation, and space exploration.



AIRBUS DEFENCE AND SPACE

PureLine Topaz/THORs Power Processing Unit

The PureLine Topaz/THORs is a compact, innovative, and flexible Power Processing Unit (PPU) designed for satellite electric propulsion, particularly for New Space applications.

Design life	10 years in LEO
Total Impulse	200 kN
Operating temperature	-30...+60 °C
Shock level	12.3 g (RMS) - 9.5 g Rms
Vibration level	20grms

price on request

[datasheet](#)

Aliena develops and manufactures Hall thruster systems for small satellites, providing integrated propulsion solutions for various satellite classes from nanosatellites to medium satellites.

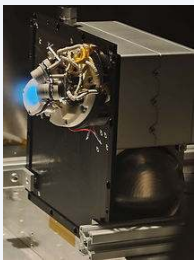


ALIENA
Hall Thruster Systems

Aliena's Hall Thruster Systems are engineered as integrated, plug-and-play solutions, offering both COTS and bespoke configurations for various space missions.

Spacecraft bus input	25 - 36 V
Tcu input	25 - 36 V 6 A (Peak)
Tcu comms	Redundant CAN bus via CSP RS422 available (TBD)

price on request



ALIENA
Hall Thrusters

ALIENA offers a range of Hall Thrusters designed for various satellite classes, providing efficient and reliable propulsion solutions.

price on request

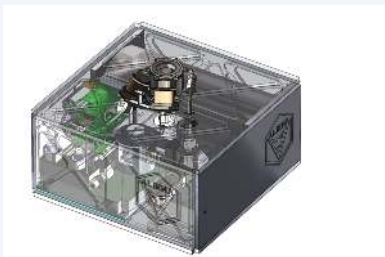


ALIENA
MESSE Magnetically Enhanced Small Satellite Engine

Compact 350 W high-thrust Hall thruster for 100-500 kg platforms: 13.5 mN, ~1100 s Isp, over 200 kNs total impulse.

System power	350 W (nominal)
Thrust	13.5 mN
Specific impulse	~1100 s
Total impulse	> 200 kNs
Propellant	Kr / Xe

price on request



ALIENA
MUSIC Electric Propulsion System

Multi-stage Hall thruster with three operating modes covering 0.1 to 3 mN of thrust and 200 to 1000 s Isp in 1.5U or 4U form factors, flown since 2022.

Type	Multi-stage Hall thruster, modular design
Self-ignition mode	1.5U form factor, < 20 W, up to 0.25 mN, up to 200 s, 1 kNs total impulse, 2 kg wet mass,
Hot mode	4U form factor, < 100 W, ~3 mN, ~1000 s, 15 kNs total impulse, 5 kg wet mass, microsattelli
Dual mode / fault-tolerant	4U form factor, < 100 W, 0.1 to 3 mN, 200 to 1000 s, 15 kNs total impulse, 5 kg wet mass,
Fuel	Xe / Kr gas

price on request



ALIENA

MUSIC Flight-ready | 2nd gen qualified 2026

The most capable integrated propulsion solution for nanosatellites and microsatellites, a fully self-contained 4U system ready to integrate.

Form factor	4U
Wet mass	6 kg
System power	100 W
Specific impulse	~700 s
Total impulse	~15 kNs

price on request



ALIENA

MUSIC Hollow Cathode

Flight-ready 1 A-class LaB6 hollow cathode for Hall thrusters from 70 to 350 W, 50 g in 3 x 4.5 cm.

Type	Heated, ceramic encapsulated
Emitter	Lanthanum hexaboride (LaB6)
Current	0.2 - 1.2 A
Ignition heating power	< 50 W
Flow rate (Xe)	0.05 - 0.16 mg/s

price on request



ALIENA

μCAT Propulsion System

The μCAT (Micro Cathode Arc Thruster) is a miniaturized electric propulsion system developed by Aliena, a Singapore-based space startup. Using a solid titanium propellant and requi

price on request

Apollo Fusion (Astra)

UNITED STATES · 2 PRODUCTS

Apollo Fusion (Astra) designs and manufactures flight-proven electric propulsion systems for satellites and provides launch services, headquartered in Alameda, California.



APOLLO FUSION (ASTRA)

Apollo Constellation Engine

ACE is a compact Hall-effect thruster propulsion system developed by Apollo Fusion (acquired by Astra in 2021) for smallsat and constellation electric propulsion, offering multi-pr

Thruster type	Hall-effect thruster
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APOLLO FUSION (ASTRA)

Apollo Constellation Engine (ACE) Ion Thruster

Apollo Fusion's ACE — a 200 W Hall-effect ion thruster for small satellites, providing cost-effective electric propulsion for constellation station-keeping and orbit transfers.

Type	Hall-effect ion thruster
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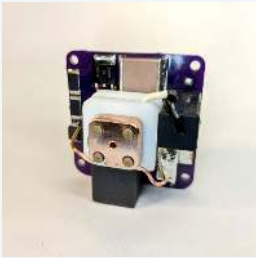
Propellant	Krypton, Xenon, or proprietary propellants (multi-propellant capable)
Input power	400 W (operable 280-600 W)
Thrust (Krypton)	~18 mN
Thrust (Xenon)	~25 mN
price on request	

Power	200 W
Thrust	~12 mN
Specific impulse	~1,600 s
Propellant	Xenon
price on request	

Applied Ion Systems

UNITED STATES · 3 PRODUCTS

Applied Ion Systems develops and tests micro End Hall Thrusters for electric propulsion.



APPLIED ION SYSTEMS

AIS-gPPT3-1C Series Integrated Propulsion Module

An open-source, ultra-low-cost micro pulsed plasma thruster module designed for PocketQubes and CubeSats, with confirmed flight heritage on orbit aboard a 1U CubeSat. Now retired.

Thruster type	AIS-gPPT3-1C Micro Pulsed Plasma Thruster
Fuel	Teflon
Power draw	500 mW
Primary capacitor bank	0.136uF
Primary bank working voltage	2 kV

\$2 500

datasheet



APPLIED ION SYSTEMS

AIS-VAT0-DEMO Educational DIY Micro Vacuum Arc Thruster Kit

The first off-the-shelf DIY educational electric propulsion learning kit, allowing anyone to build and fire a fully operational micro vacuum arc thruster based on real flight-modul

Type	Micro Vacuum Arc Thruster Demo DIY Kit
Power	2.5 W
Shot lifetime (10^-2 Torr)	>300,000
Shot lifetime (10^-6 Torr)	60,000
Rep rate	Single Shot to 8 Hz

\$570

datasheet



APPLIED ION SYSTEMS

AIS-VAT1-PQ

A flight-qualified micro vacuum arc thruster (MVAT) using solid bismuth fuel, designed to provide propulsion for PocketQube and small CubeSat satellites.

Type	Micro Vacuum Arc Thruster
Power	2.5 W or 5 W Options
Thrust (Beginning of Life)	26uN
Thrust (End of Life)	<1uN
Shot lifetime	40,000

\$3 500

Ascend Beyond Space

UNITED STATES · 2021 · 1 PRODUCT

Space technology startup developing solutions for orbital logistics and in-space operations.

ASCEND BEYOND SPACE

ASCEND Propulsion System

A high-performance, cost-effective water-based resistojet propulsion system offering best-in-class thrust and specific impulse for its category, designed for deorbiting and mission

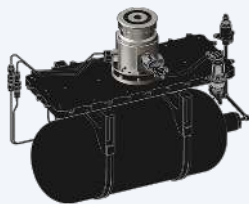
Compatible battery types	Li-ion, LiPo
Discharge method	Passive resistive
Command interface	Single ground command
Operating temperature	-40 to +85 °C
Compliance	IADC debris mitigation guidelines

price on request

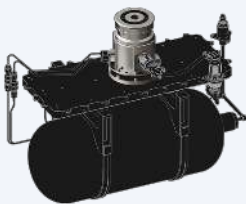
Astra Space

UNITED STATES · 2016 · 2 PRODUCTS

Astra Space designs and manufactures responsive mobile launch systems (Rocket 4.0) and flight-proven electric propulsion systems for satellites, headquartered in Alameda, California.



ASTRA SPACE



ASTRA SPACE

Astra Satellite Engine (ASE)

Flight-proven Hall-effect electric propulsion system for small satellites, operating on xenon or krypton with scalable multi-thruster configurations.

Propellant	Xenon (Xe) or Krypton (Kr)
Input power	400 W (single string)
Thrust (Xe)	~25 mN
Thrust (Kr)	~18 mN
Specific impulse (Xe)	~1,400 s

price on request

Satellite Engine

Astra's Satellite Engine offers superior fuel efficiency with a thrust range of ~18-25 mN, providing mission flexibility for various space applications.

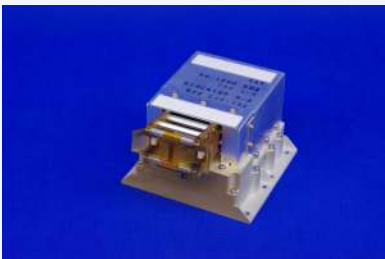
Specific impulse	~1,300-1,400s
Thrust range	~18-25 mN
Propellant options	Xenon (Xe) or Krypton (Kr)

price on request

ATI Space (Advanced Technology Institute)

JAPAN · 2008 · 1 PRODUCT

Advanced Technology Institute (ATI) is a Tokyo-based space engineering firm supporting satellite and launch vehicle development, manufacturing thermal vacuum chambers, and supplying space-grade components including propulsion systems, senso



ATI SPACE (ADVANCED TECHNOLOGY INSTITUTE)
Electric Propulsion Systems

ATI Space supplies a range of electric propulsion systems for small and CubeSat spacecraft, including nano pulsed plasma thrusters (PPT), Hall effect thrusters, ADN green propulsio

Types	PPT, Hall effect, ADN green, nanoFEEP
Applications	CubeSat, nanosatellite, microsatellite
Functions	Orbit raising, station keeping, attitude control, deorbit
Propellant	PTFE, ADN green, xenon

price on request

Aurora Propulsion Technologies

FINLAND · 2018 · 3 PRODUCTS

Finnish manufacturer of water-propellant resistojet thrusters and propellant-free plasma brake deorbiting tethers for small satellites, from CubeSats to SmallSats.



AURORA PROPULSION TECHNOLOGIES
ARM-O (Aurora Resistojet Module for Orbit Control)



AURORA PROPULSION TECHNOLOGIES
Aurora Resistojet Module for Orbit Control (ARM-O)

A modular water-propellant resistojet thruster module for satellite orbit control, ideal for collision avoidance and small orbital maneuvers on SmallSats, CubeSats and PicoSats.

Propellant	Water
Thrust-to-power ratio	Ten times more thrust to power need compared to FEEP
Specific impulse	Double the specific impulse compared to cold gas
Target platforms	SmallSats, CubeSats and PicoSats
Iod	2026

[price on request](#) [datasheet](#)



AURORA PROPULSION TECHNOLOGIES
Multi-Modal Electric Propulsion Engine (MEPE)

5U dual-mode electric propulsion system combining Hall-effect thruster and resistojet modes with green propellant — orbital maneuvers up to 150 kg, flew as IOD in 2023.

Form factor	5U
Propulsion modes	Hall-effect thruster + resistojet
Propellant	Green (non-toxic)
Max serviceable satellite mass	~150 kg
Flight heritage	IOD launched 2023 (ORB-12 STRIDER)

[price on request](#) [datasheet](#)

A modular water-propellant resistojet thruster module for satellite orbit control, designed for collision avoidance and small orbital maneuvers on SmallSats, CubeSats and PicoSats.

Thrust-to-power need	10x more than FEEP
Specific impulse	2x compared to cold gas
Propulsion safety	Safe and reliable propulsion
Flight heritage / iod	IOD 2026
Applicable platforms	SmallSats, CubeSats, PicoSats

[price on request](#) [datasheet](#)

Bellatrix Aerospace

INDIA · 2015 · 3 PRODUCTS

Indian in-space propulsion company developing electric and green chemical thrusters and orbital transfer vehicles for missions from nanosatellites to GEO platforms.



BELLATRIX AEROSPACE
Arka Hall Effect Thruster Series

Family of Hall Effect Thrusters from 50 W to 5 kW for cubesats through large GEO platforms.

Arka 50 - thrust	3 mN
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BELLATRIX AEROSPACE
Jal Microwave Plasma Thruster

Water-fuelled microwave plasma electric thruster with zero propellant cost, for GEO and high-power missions.

Thrust (Jal 5000)	300 mN
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Arka 50 - power	50 W
Arka 50 - specific impulse	860 s
Arka 100 - thrust	7 mN
Arka 100 - power	100 W

price on request

Power input	5000 W
Specific impulse	1050 s
Operational lifespan	>20,000 hours
Propellant	Water

price on request



BELLATRIX AEROSPACE

RUDRA Hall Effect Thruster

RUDRA is a Hall Effect Thruster (HET) developed by Bellatrix Aerospace of India for small satellite propulsion. It is designed for attitude control, orbit raising, and station-keep

price on request

Blue Orbit Space Systems

GERMANY · 3 PRODUCTS

Blue Orbit Space Systems is a German deep-tech startup based in Bremen that develops electric propulsion systems for small satellites and plasma-based solutions for industrial applications.



BLUE ORBIT SPACE SYSTEMS

TRINIT-ION Gridded Ion Thruster

Argon/nitrogen gridded ion thruster of the TRINITY series: under 50 mN thrust, up to 2500 s Isp, total impulse below 2000 kN-s.

Propellant	Argon, Nitrogen
Mass (incl. thruster and cathode)	2.5 kg
Dimensions	90 x 85 x 115 mm
Nominal input power	800 - 1200 W
Operational power range	1500 W

price on request [datasheet](#)



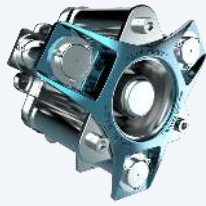
BLUE ORBIT SPACE SYSTEMS

TRINITY ABE Air Breathing Thruster

Air-breathing electric thruster of the TRINITY series for VLEO operation at 180-250 km: under 20 mN thrust, up to 2000 s Isp.

Propellant	Argon, Nitrogen
Mass (incl. thruster and cathode)	2.5 kg
Dimensions	90 x 85 x 115 mm
Nominal input power	800 - 1200 W
Operational power range	1500 W

price on request [datasheet](#)



BLUE ORBIT SPACE SYSTEMS

TRINITY HET Hall Effect Thruster

Argon/nitrogen Hall effect thruster of the TRINITY series for small satellites: under 100 mN thrust, up to 1100 s Isp, LEO to GEO.

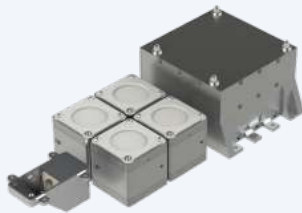
Propellant	Argon, Nitrogen
Mass (incl. thruster and cathode)	2.5 kg
Dimensions	90 x 85 x 115 mm
Nominal input power	800 - 1200 W
Operational power range	1500 W

[price on request](#) [datasheet](#)

Busek Co.

UNITED STATES · 1985 · 17 PRODUCTS

Busek Co. Inc. designs, develops, and manufactures electric propulsion thrusters and related space hardware for military, government, and commercial satellites, with a focus on Hall, electro spray, RF



BUSEK CO.

BET-MAX Electro spray Thruster System

Multi-axis precision electro spray propulsion system (BET-300P thrusters) for ultra-precise attitude/orbital control down to 1U platforms.

Thruster module	BET-300P passively-fed electro spray thruster, 125 cm ³
Thrusters per PPU	Up to 4
Thrust range	< 1 μN to 150 μN, sub-μN resolution
Impulse per module	> 100 N·s
Neutralizer	Carbon Nanotube Field Emission Cathode (CNTFEC), propellant-less

[price on request](#)



BUSEK CO.

BHT-100

The BHT-100 is a compact, magnetically shielded Hall thruster designed for small spacecraft, offering high efficiency and a predicted lifetime of 10,000 hours or more.

Discharge power	100 W
Supply voltage	200 VDC
Thrust	7 mN
Specific impulse	1000 seconds
Propellants	Xenon, Iodine

[price on request](#) [datasheet](#)



BUSEK CO.

BHT-100

Compact and versatile, the BHT-100 Hall Thruster is precisely engineered for leading-edge propulsion to enable a new class of spacecraft missions.

Input Power	100 W
Thrust	7 mN
Specific Impulse	1000 s
Demonstrated Impulse	45 kN·s
Total Impulse	>250 kN·s

[price on request](#) [datasheet](#)



BUSEK CO.

BHT-1500

The BHT-1500 is a 2kW-class Hall Effect thruster featuring an innovative center-mounted cathode, designed for efficient and high-performance propulsion using xenon, krypton, or iodine

Nominal discharge power	1,500 W
Discharge power range	1,000-2,700 W
Nominal thrust	101 mN (Xe)
Propellants	Xenon, Krypton, Iodine
Nominal specific impulse	1710 seconds

[price on request](#) [datasheet](#)



BUSEK CO.

BHT-200

The BHT-200 is a high-performance, mature Hall effect thruster with flight heritage, designed for spacecraft propulsion and capable of operating with various propellants including

Specific impulse	1390 seconds
Demonstrated impulse	74.88 kN·s
Predicted total impulse	>140 kN·s
Discharge power	200 W
Supply voltage	250 VDC

[price on request](#) [datasheet](#)



BUSEK CO.

BHT-20K

The BHT-20K is Busek's highest power Hall thruster to date, designed for high-power space missions and capable of delivering 1 Newton of thrust.

Discharge power	20,000 W
Supply voltage	450 VDC
Thrust	1006 mN
Propellants	Xenon, Krypton, Iodine
Specific impulse	2515 seconds

[price on request](#) [datasheet](#)



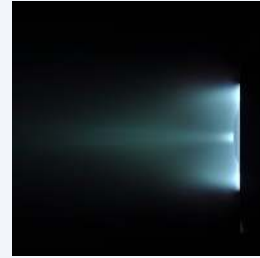
BUSEK CO.

BHT-350

The BHT-350 is a Hall Effect thruster designed for high-volume production and scalability in new space applications, offering an economical propulsion solution for constellations a

Nominal discharge power	350 W
Throttle range	200 W-600W
Nominal thrust	17 mN
Propellants	Xenon, Krypton, Iodine
Nominal specific impulse	1244s

[price on request](#) [datasheet](#)



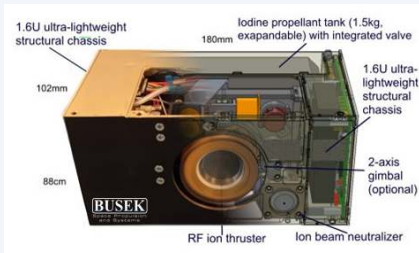
BUSEK CO.

BHT-6000

The BHT-6000 is a high-performance Hall effect thruster optimized for mid-to-high power applications, capable of operating in both high thrust and high impulse modes.

Nominal discharge power (High Thrust Mode)	5,000 W
Supply voltage (High Thrust Mode)	300 V
Thrust (High Thrust Mode)	320 mN
Specific impulse (High Thrust Mode)	2,029 s
Nominal discharge power (High Impulse Mode)	6,000 W

[price on request](#) [datasheet](#)



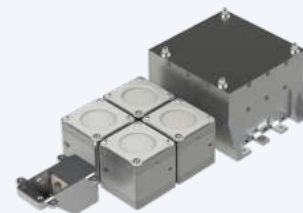
BUSEK CO.

BIT-3 RF Ion Thruster

Compact iodine-fueled gridded RF ion thruster; flown on NASA SLS deep-space CubeSat missions.

System power	56-75 W
Thrust	Up to 1.1 mN
Specific impulse	Up to 2150 s
System dry mass	1.40 kg (with gimbal)
Delta-v	Up to 2.39 km/s (14 kg CubeSat)

[price on request](#)



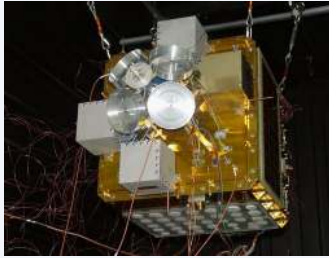
BUSEK CO.

Electro Spray Thrusters

Enabling unique missions in space-based science, from detecting gravity waves to stabilizing large observatories, these thrusters offer precise thrust control and efficient operati

System Power	12 W - 14 W (24 W max)
Propellant	Ionic Liquid
Thrust	<1uN-150uN range per thruster
Thrust Noise	<0.2uN/rHz
Specific Impulse	850 seconds - 2300 seconds

[price on request](#) [datasheet](#)



BUSEK CO.
FalconSat-3

The FalconSat-3 features the first 3-electrode micro-pulsed plasma thruster (μ PPT) in space, launched in 2007.

[price on request](#) [datasheet](#)



BUSEK CO.
Hall Thrusters

Busek develops leading edge electric propulsion thrusters to enable entirely new classes of spacecraft missions, balancing extraordinarily high specific impulse with excellent thru

[price on request](#) [datasheet](#)



BUSEK CO.
Hall Thrusters

Busek develops leading edge electric propulsion thrusters to enable entirely new classes of spacecraft missions, balancing extraordinarily high specific impulse with excellent thru

[price on request](#) [datasheet](#)



BUSEK CO.
LISA Pathfinder First Flight Electro spray Thruster

Busek delivered eight electro spray thruster clusters for the NASA/ESA LISA Pathfinder mission, ST7, a technology demonstration mission to prepare for the Laser Interferometry Space

[price on request](#) [datasheet](#)



BUSEK CO.
RF Ion Thrusters

Extremely compact and versatile systems for spacecraft classes from small satellites to nanosatellites, featuring high performance and unprecedented efficiency at its size.

System Power	56-80 W
Thrust	Up to 1.25 mN
Specific Impulse	Up to 2300s
Delta-V	Up to 2.5 km/s (14 kg CubeSat)

[price on request](#) [datasheet](#)



BUSEK CO.
SUB-KILOWATT HALL THRUSTERS

Sized perfectly for small satellites and CubeSats, these scalable solutions offer high performance for various applications.

[price on request](#) [datasheet](#)



BUSEK CO.

TacSat-2

The TacSat-2 satellite, launched in 2006, featured Busek's 200W Hall Thruster, marking the first US-designed and US-built Hall thruster in space for primary propulsion.

[price on request](#) [datasheet](#)

CU Aerospace

UNITED STATES · 5 PRODUCTS

Small satellite propulsion systems developer specializing in electric and chemical thrusters for CubeSats and small spacecraft.



CU AEROSPACE

CHIPS — CubeSat High Impulse Propulsion System

Miniaturized warm-gas resistojet propulsion system for CubeSats with integrated main thruster and 3-axis ACS.

Thruster type	Warm-gas resistojet (superheater)
Specific impulse (Isp)	40–50% higher than cold-gas Isp
Total impulse (CHIPS-180)	180 N-s
Package size (without ACS)	As small as 0.3U
Package size (with ACS)	As small as 0.6U

[price on request](#) [datasheet](#)



CU AEROSPACE

Filament pulsed plasma thruster (FPPT)

Fiber-Fed Pulsed Plasma Thruster (FPPT) provides high specific and total impulse for small satellites, available in various form factors.

Minimum specific impulse	3,500 s
Thrust vectoring	±5 degrees
Volume range	0.7 to 53 liters
Total impulse range	1,000 to 600,000 N-s
Package size for >25,000 N-s total impulse	1.7 liters

[price on request](#)



CU AEROSPACE

FPPT — Fiber-Fed Pulsed Plasma Thruster

CU Aerospace's Fiber-Fed Pulsed Plasma Thruster (FPPT) provides very high specific impulse greater than 3,500 seconds via a 10-microsecond electromagnetic pulse discharge unit

Thruster type	Pulsed plasma thruster (PPT) with electromagnetic thrust vectoring
Specific impulse (Isp)	>3,500 s
Total impulse (1.7L package)	>25,000 N·s
Total impulse range	1,000–600,000 N·s (0.7L–53L)
Package size range	0.7 L to 53 L (1U to ESPA-class)

price on request



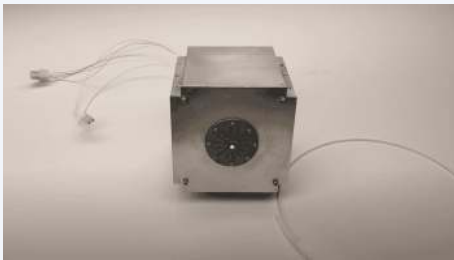
CU AEROSPACE

FPPT Fiber-Fed Pulsed Plasma Thruster

High-Isp electric propulsion ablating spooled PTFE fiber via short pulses — >3,500s Isp, no pressurized tank, scales 0.7L–53L, for orbit maneuvers and debris removal.

Pulse duration	10 microseconds
Specific impulse	>3,500 s
Thrust vectoring range	±5° (pitch/yaw)
Total impulse (1.7L package)	>25,000 N·s
Size range	0.7L to 53L

price on request



CU AEROSPACE

Monofilament Vaporization Propulsion (MVP)

The Monofilament Vaporization Propulsion (MVP) system uses 3D printer technology to provide continuous electrothermal thrust with Delrin fiber propellant.

Specific Impulse	66 s
Volume	0.93-liter
Total Impulse	265 N·s

price on request

DeltaX Propulsion

UNITED STATES · 2 PRODUCTS

Developer of electrospray thrusters using nanomaterials science for efficient electric propulsion of small satellites and spacecraft.



DELTA X PROPULSION

DeltaX Electro spray Thruster

High-efficiency electro spray thruster with 3,000 s Isp and 50% mass reduction via aerogel-integrated propellant.

Thruster type	Electro spray (electric propulsion)
Specific impulse (Isp)	~3,000 s (2–3x chemical thrusters)
Mass reduction	50% vs. comparable thrusters via aerogel-integrated propellant
Scalability	Modular design from CubeSats to GEO-class spacecraft

price on request

DELTA X PROPULSION

DXP Electro spray Thruster

Carbon-aerogel electro spray thruster with Isp ~3,000 s for CubeSats and small satellites.

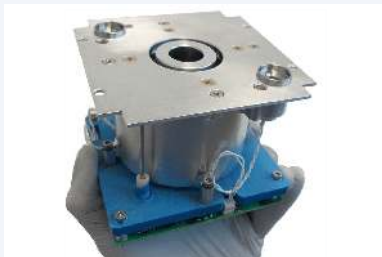
Specific impulse (Isp)	~3,000 s
Propellant	Ionic liquid
Emitter material	Carbon aerogel nanocomposite
Target platform	1U–12U CubeSat
Thrust mode	Electro spray / field emission

price on request

ENPULSION GmbH

AUSTRIA · 2016 · 6 PRODUCTS

Austrian manufacturer of Field Emission Electric Propulsion (FEEP) systems for nano- and microsatellites, with over 200 propulsion units delivered to orbit.



ENPULSION GMBH

Cluster of IFM Nano Thruster for Smallsats

The IFM Nano thruster was developed as spin-off from a thruster being developed for high precision control of ESA's Next Generation of satellite Gravity Missions. Building on more...

Manufacturer	ENPULSION
Lead time	12 weeks

price on request



ENPULSION GMBH

ENPULSION NANO Thruster (IFM Nano Thruster)

Self-contained indium FEEP electric propulsion system for CubeSats — up to 0.35 mN thrust, 2,000–6,000 s Isp, 680 g dry mass, >5,000 N·s total impulse.

Thrust range	0.01–0.35 mN
Specific impulse	2,000–6,000 s
Input power	8–40 W (3.5 W hot standby)
Dry mass	680 g
Wet mass	900 g

price on request

[datasheet](#)



ENPULSION GMBH

Micro R³

The Micro R³ is a scaled version of Enpulsion's flight-proven thruster design, making it an ideal propulsion system for small and medium-sized spacecraft.

Dynamic Thrust Range	0.5 - 1 mN
Nominal Thrust	110 W incl. neutralizer
Specific Impulse	2,700s at 1 mN
Propellant Mass	1.25 kg
Total Impulse	26 kNs at 1 mN

[price on request](#) [datasheet](#)



ENPULSION GMBH

Nano R³

An evolved, flight-proven system that enhances protection and reliability, the Nano R³ delivers dynamic ISP ideal for nanosatellites and CubeSat missions.

[price on request](#)



ENPULSION GMBH

Nexus

The Nexus propulsion system is designed for spacecraft ranging from 150-500kg, offering high power propulsion with unrivaled impulse density.

[price on request](#)



ENPULSION GMBH

Scalable Propulsion Portfolio

Enpulsion offers a scalable electric propulsion portfolio featuring modular, plug-and-play FEEP-based units designed to streamline integration and accelerate mission timelines for

[price on request](#)

EREMS

FRANCE · 1979 · 1 PRODUCT

EREMS is a French SME founded in 1979, specializing in the design and realization of electronic equipment and software for high technology fields including Space.



EREMS

PPSU Plasma Propulsion Selection Unit

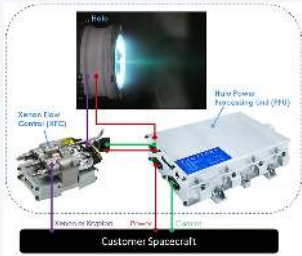
Switching unit routing electrical power between electric propulsion power supplies and thrusters — routes signals from two PPUs to a single thruster.

Function	Switches thruster/cathode signals from 2 PPU's to a single thruster
price on request	

ExoTerra Resource

UNITED STATES · 2011 · 1 PRODUCT

US developer of miniaturized Hall effect thrusters and propellant distribution systems for high-impulse, affordable microsatellite and CubeSat propulsion.



EXOTERRA RESOURCE

Iris Propulsion Module / Propulsion Kit

ExoTerra offers the Iris Propulsion Module, a bolt-on solar electric propulsion system for small spacecraft, and a Propulsion Kit consisting of a Hall-effect thruster, Power Proces

Radiation tolerance (Iris)	30 kRad TID
Propellant options (Iris)	Xenon or Krypton
Mounting (Iris)	Inside a standard 24" Lightband
Height (Iris)	Less than 30 cm
Operational power (Iris)	Low sub-kilowatt levels

price on request [datasheet](#)

Exotrail

FRANCE · 2017 · 3 PRODUCTS

French electric propulsion company; ExoMG™ Hall thrusters for satellite orbit raising, station-keeping, and deorbit; SpaceCloud OTV and SpaceOps software.



EXOTRAIL

ExoMG Hall Effect Thruster

ExoMG is Exotrail's Hall effect electric thruster designed for small satellites from 20 kg to 500 kg class. Hall effect thrusters use a magnetic field to ionize xenon propell

price on request



EXOTRAIL

SpaceVan Electric Propulsion Transfer System

Exotrail's SpaceVan — an in-space propulsion transfer vehicle combining Hall-effect thrusters for delivering satellite payloads from rideshare drops to their operational orbits.

Propulsion type	Hall-effect (xenon) electric propulsion
Thruster family	ExoMG (1–15 mN thrust, 1,000–1,800 s Isp)
Power range	<300 W

Function	Last-mile orbit delivery (rideshare → operational orbit)
Transfer time	Weeks to months (vs. hours for chemical)
price on request	



EXOTRAIL

spaceware™ Hall Effect Thruster

spaceware™ is a next-generation Hall Effect thruster designed for versatility and power, featuring a modular architecture for easy integration into diverse satellite platforms and

Thrust	2.5 mN
Power	60 W
Total impulse	Up to 6 kN.s
On/off cycles	3,000 cycles
Design life	5 years In-Orbit

price on request

Glavkosmos

RUSSIA · 1985 · 23 PRODUCTS

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

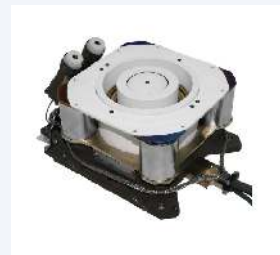


GLAVKOSMOS

Correction Unit (CU) based on Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W and XFC Unit

A Correction Unit (CU) featuring a Stationary Plasma Thruster with 1350 W nominal discharge power and a Xenon Flow Controller Unit (XFC Unit), designed for spacecraft station keeping

Purpose	Spacecraft station keeping. Spacecraft orbit raising to GEO
Year of release	1995
Design life	9000 hours 5000 cycles years
Lead time	10 months
Flight qualification of the product	Yes



GLAVKOSMOS

Dual-mode Stationary Plasma Thruster with a Nominal Discharge Power of 2500/1350 W

A dual-mode stationary plasma thruster with nominal discharge powers of 2500W and 1350W, designed for spacecraft station keeping and orbit raising to GEO.

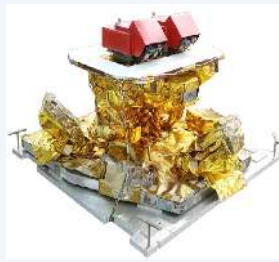
Purpose	Spacecraft station keeping. Spacecraft orbit raising to GEO.
Year of release	2007
Design life	8000 / 12000 hours 5000 cycles years
Lead time	10 months

price on request

Flight qualification of the product

No

price on request



GLAVKOSMOS

Integrated Thruster Unit 13

The Integrated Thruster Unit 13 (ITU) is a propulsion system designed for spacecraft orbit formation and station keeping, featuring a high-precision thruster orientation mechanism

Purpose ITU is intended for creating the required thrust forces when forming the spacecraft operat

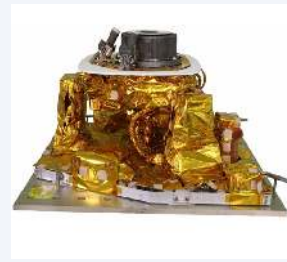
Year of release 2008

Design life 15 years

Lead time 14 months

Flight qualification of the product No

price on request



GLAVKOSMOS

Integrated Thruster Unit ITU-5000M

The ITU-5000M is an integrated thruster unit designed for spacecraft orbit formation and station keeping, featuring a high-precision Thruster Orientation Mechanism and a Modified S

Purpose ITU-5000M is intended for creating the required thrust forces when forming the spacecraft

Year of release 2008

Design life 15 years

Lead time 14 months

Flight qualification of the product No

price on request



GLAVKOSMOS

Low Power Stationary Plasma Thruster

A low-power stationary plasma thruster designed for spacecraft station keeping, utilizing xenon propellant and featuring a hollow cathode.

Purpose Spacecraft (S/C) station keeping.

Year of release 2009

Design life 1000 hours 2000 vklyucheni years

Lead time 10 months

Flight qualification of the product No

price on request



GLAVKOSMOS

Low Power Stationary Plasma Thruster with 50 mm Diameter of the Accelerating Channel

A low-power stationary plasma thruster with a 50 mm accelerating channel diameter, designed for spacecraft station keeping and utilizing xenon propellant.

Purpose Spacecraft (S/C) station keeping.

Year of release 1976

Design life 2500 hours 3000 cycles years

Lead time 10 months

Flight qualification of the product Yes

price on request



GLAVKOSMOS

Low Power Stationary Plasma Thruster with 70 mm Diameter of the Accelerating Channel

A low-power stationary plasma thruster designed for spacecraft position keeping, utilizing xenon propellant and featuring a classical magnetic system.

Purpose	Spacecraft position keeping.
Year of release	1980
Design life	3100 hours 3000 cycles years
Lead time	10 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Metal Composite Xenon Tank XT-200

The Metal Composite Xenon Tank XT-200 is a high-pressure storage vessel designed for xenon propellant in electric propulsion systems, enabling spacecraft orbit raising.

Year of release	2015
Design life	19 years
Lead time	12 months
Flight qualification of the product	Yes
Possibility to adapt the product to customer requirements	Yes

price on request



GLAVKOSMOS

Metal Composite Xenon Tank XT-350

The Metal Composite Xenon Tank XT-350 is a flight-qualified, metal-composite tank designed to store xenon for electric propulsion systems on spacecraft, enabling orbit raising mane

Purpose	In apogee electric propulsion engine units to provide spacecraft orbit raising from geosta
Year of release	2012
Design life	19 years
Lead time	12 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Modified Low Power Stationary Plasma Thruster with 50 mm Diameter of the Accelerating Channel

A modified low-power stationary plasma thruster with a 50 mm accelerating channel, designed for spacecraft station keeping and flight-qualified on OneWeb satellites.

Purpose	Spacecraft (S/C) station keeping.
Year of release	2016
Design life	5000 hours 6000 cycles years
Lead time	10 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Modified Low Power Stationary Plasma Thruster with 70 mm Diameter of the Accelerating Channel

A modified low-power stationary plasma thruster designed for spacecraft station keeping, featuring a 70 mm accelerating channel and using xenon propellant.

Purpose	Spacecraft (S/C) station keeping.
Year of release	2015
Design life	7000 hours 7000 cycles years
Lead time	10 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

Modified Stationary Plasma Thruster with a Discharge Power of up to 5 kW

A modified stationary plasma thruster with a discharge power of up to 5 kW, designed for spacecraft station keeping and orbit raising to GEO, using xenon propellant.

Purpose	Spacecraft station keeping. Spacecraft orbit raising to GEO.
Year of release	2007
Design life	20000 hours 7000 cycles years
Lead time	12 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Modified Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W

A modified Stationary Plasma Thruster (SPT) with a nominal discharge power of 1350 W, designed for spacecraft station keeping and orbit raising using xenon propellant.

Purpose	Spacecraft station keeping. Spacecraft orbit raising to GEO.
Year of release	2012
Design life	12000 hours 5000 cycles years
Lead time	10 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

Stationary Plasma Thruster with a Discharge Power of up to 25 kW

A Stationary Plasma Thruster (SPT) designed for spacecraft station keeping and orbit raising, utilizing xenon propellant and featuring a classical magnetic system.

Purpose	Spacecraft station keeping. Spacecraft orbit raising to GEO.
Year of release	2013
Design life	10000 hours years
Lead time	12 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

Stationary Plasma Thruster with a Discharge Power of up to 5 kW

A Stationary Plasma Thruster (SPT) designed for spacecraft station keeping and orbit raising, utilizing xenon propellant and offering discharge power up to 5 kW.

Purpose	Spacecraft station keeping.Spacecraft orbit raising to GEO
Year of release	1996
Design life	20000 hours 7000 cycles years
Lead time	12 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Stationary Plasma Thruster with a Discharge Power of up to 6 kW

A Stationary Plasma Thruster (SPT) designed for spacecraft station keeping and orbit raising, utilizing xenon propellant and offering up to 6 kW discharge power.

Purpose	Spacecraft station keeping.Spacecraft orbit raising to GEO
Year of release	2015
Design life	35000 hours 7000 cycles years
Lead time	12 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W

A xenon-fueled Stationary Plasma Thruster with a nominal discharge power of 1350 W, designed for spacecraft station keeping and orbit raising, featuring a classical magnetic system

Year of release	1985
Design life	9000 hours 5000 cycles years
Lead time	10 months
Flight qualification of the product	Yes
Brief history of flight qualification	As part of: S/C of Cosmos series; SS/Loral's S/C; Airbus Defense & Space S/C; OHB System G

price on request



GLAVKOSMOS

Thrust Module (TM) Based on Thruster with 70 mm Diameter of the Accelerating Channel with Xenon Flow Controller Unit (XF)

A Thrust Module (TM) for spacecraft station keeping, featuring a 70 mm diameter thruster and a Xenon Flow Controller Unit (XFC Unit). It uses xenon propellant and has significant f

Purpose	Spacecraft (S/C) station keeping
Year of release	2001
Design life	4500 hours 3000 cycles years
Lead time	12 months
Flight qualification of the product	Yes

price on request



GLAVKOSM05

Xenon Flow Controller for Low Power Plasma Thruster with 50 mm Diameter of the Accelerating Channel

A Xenon Flow Controller designed to provide and distribute propellant flow to low-power stationary plasma thrusters with a 50 mm accelerating channel diameter.

Design life	10 years
Lead time	9 months
Flight qualification of the product	Yes
Brief history of flight qualification	As part of: Meteor-1-27 S/C (launched on 15.05.76); S/C of Kanopus-B series (launched on 2
Possibility to adapt the product to customer requirements	Yes

price on request



GLAVKOSM05

Xenon Flow Controller for Low Power Plasma Thruster with 70 mm Diameter of the Accelerating Channel

A Xenon Flow Controller designed for low-power plasma thrusters, regulating propellant flow rate and distributing it between anode and cathode lines.

Purpose	Xenon Flow Controller provides the required propellant flow rate to the Low Power Stationa
Lead time	9 months
Flight qualification of the product	Yes
Possibility to adapt the product to customer requirements	Yes
Flow rate regulation range	(1.0 - 3.5) mg/s

price on request



GLAVKOSM05

Xenon Flow Controller for Stationary Plasma Thruster with a Discharge Power of up to 5 kW

The Xenon Flow Controller provides and distributes the required xenon propellant flow rate to Stationary Plasma Thrusters with a discharge power of up to 5-6 kW.

Year of release	1996
Design life	16 years
Lead time	9 months
Flight qualification of the product	Yes
Brief history of flight qualification	As part of: SS/Loral's S/C Airbus Defense & Space S/C.

price on request



GLAVKOSM05

Xenon Flow Controller for Stationary Plasma Thruster with a Nominal Discharge Power of 1350 W

A Xenon Flow Controller designed for Stationary Plasma Thrusters with a nominal discharge power of 1350 W, it regulates and distributes xenon propellant flow to the anode and catho

Purpose	Xenon Flow Controller provides the required propellant flow rate to the Stationary Plasma
Year of release	1985
Design life	20 years
Lead time	9 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

XFC unit

The XFC unit is a xenon flow controller designed to supply and regulate the total flow rate and its normalized distribution between anode and cathode units, while also maintaining

Purpose	Is intended for supplying and regulation of the total flow rate and its normalized distrib
Year of release	1996
Design life	16 years
Lead time	9 months
Flight qualification of the product	Yes

price on request

Hongqing Technology (鸿擎科技)

CHINA · 2021 · 2 PRODUCTS

Beijing satellite constellation company partnered with Blue Arrow Aerospace; develops communications, remote sensing, and science satellites plus in-house Jinwu propulsion, Chiyu power, and Baize electronics subsystems.



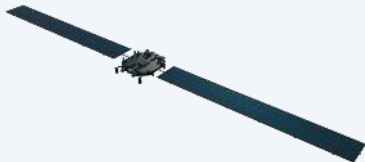
HONGQING TECHNOLOGY (鸿擎科技)

Jinwu Electric Propulsion System

The Jinwu Electric Propulsion System is Hongqing Technology next-generation argon-fueled electric propulsion platform, developed entirely in-house for commercial LEO satellite appl

Propellant	Argon (Ar)
In-orbit ignition cycles	4,089 (verified as of June 8, 2026)
Ignition success rate	100%
Cumulative orbital maneuver altitude	1,434 km
Supply module - pressure regulation ratio	>300:1

price on request



HONGQING TECHNOLOGY (鸿擎科技)

Next-Generation Argon Propellant Electric Propulsion System

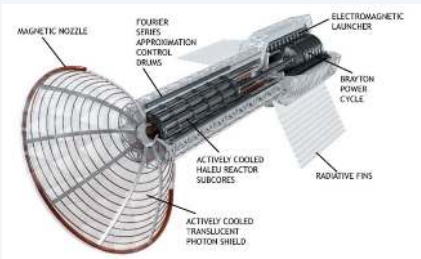
Hongqing Technology's next-generation electric propulsion system utilizes argon propellant, designed for low-cost and high-reliability satellite operations through iterative innova

price on request

Howe Industries

UNITED STATES · 2018 · 2 PRODUCTS

Howe Industries is a Scottsdale, Arizona propulsion startup developing advanced space technologies including ThermaSat water-propellant electrothermal CubeSat thrusters, nuclear pulsed plasma rockets, and orbital robotics, backed by NASA NI

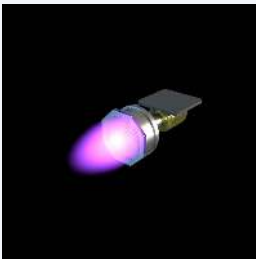


HOWE INDUSTRIES
Pulsed Plasma Rocket (PPR)

NASA NIAC-funded nuclear pulsed-plasma propulsion concept aiming to cut crewed Mars transit time to about two months — 100,000 N thrust, 5,000 s specific impulse, 282 MW power.

Thrust	100,000 N (100 kN)
Specific impulse	5,000 s
Reactor power	282 MW
Spacecraft total mass	80,000 kg
Payload capacity	18,500 kg

price on request



HOWE INDUSTRIES
SEPTIR

Radioisotope-powered electric thruster delivering 3,048 s specific impulse at only 3 W power draw, targeting small satellite and deep space platforms that require long-duration, ne

Specific impulse	3,048 s
Power draw	3 W
Thrust	0.295 mN
System mass	10 kg
Propulsion type	Electric (radioisotope-powered ion)

price on request

Hypernova Space Technologies

SOUTH AFRICA · 2018 · 1 PRODUCT

South Africa-based space hardware company developing the Lumen thermal vacuum testing system and providing TVAC test services for the aerospace industry.

HYPERNOVA SPACE TECHNOLOGIES
Vacuum Arc Thruster (VAT) Electric Propulsion System

Solid-metal-propellant vacuum arc electric thruster in 0.5U CubeSat form factor — no xenon, no pressurization, aluminium or steel propellant, in-orbit validated January 2023 on End

Thruster type	Vacuum Arc Thruster (VAT) – plasma electric propulsion
Form factor	0.5U CubeSat-compatible
Propellant material	Solid metal (aluminium or steel)
Propellant state	Solid (no pressurization required)
Propellant safety	Non-toxic, non-hazardous for launch

price on request

ION-X

FRANCE · 2021 · 1 PRODUCT

French startup developing ionic liquid electrospray thrusters for CubeSat and small satellite on-orbit propulsion; founded 2021.

ION - X
Ion Propulsion Components and Test Equipment

ION-X's ion propulsion system components — grid ion thruster grids, discharge chambers, neutralizers, and test equipment for electric propulsion development programs.

Products	Thruster grids, discharge chambers, hollow cathode neutralizers, flow controllers
Grid materials	Carbon-carbon composite, pyrolytic graphite, molybdenum
Test equipment	Thrust stands, ion beam probes, plume diagnostics for vacuum testing
Applications	GIE (gridded ion engine) and HET (Hall effect thruster) supply
Customers	NASA, ESA, university propulsion labs, NewSpace propulsion developers

price on request

ISS Reshetnev

RUSSIA · 1959 · 1 PRODUCT

Russian satellite manufacturer in Zheleznogorsk, Siberia; GLONASS-K/M navigation, Express GEO comms, Luch data relay, and Yamal satellites; 1,400+ spacecraft built.

ISS RESHETNEV

Xenon Feed Unit (XFU)

The Xenon Feed Unit (XFU) developed by ISS Reshetnev is a precision propellant management assembly for electric propulsion systems on geostationary satellites. The XFU controls xen

price on request

Kreios Space

SPAIN · 2024 · 1 PRODUCT

Spanish space technology startup developing satellite constellation infrastructure and communications solutions.



KREIOS SPACE

Air-Breathing Electric Propulsion (ABEP) Thruster

Electric thruster ingesting residual atmospheric particles at Very Low Earth Orbit and converting them to plasma for continuous thrust — no onboard propellant tank required.

Satellite platform lifetime	>7 years
Operating altitude	Can extend below 200 km
Propellant	None required — ingests atmospheric gas

Development generations	K-1 (2021), K-2 (2023), K-3 (2024)
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price on request

Lanzo Batteries

1 PRODUCT

Lanzo Batteries designs and manufactures lithium-ion battery packs for space energy storage, serving large satellites, small satellites, and CubeSats.



LANZO BATTERIES

AEPS Advanced Electric Propulsion System — Hall-Effect Ion Thruster for NASA Gateway

L3Harris Technologies is a US defense technology company providing space systems, communication electronics, and space propulsion. L3Harris (formed by the 2019 merger of L3 Technol

price on request

Magdrive

UNITED KINGDOM · 2019 · 2 PRODUCTS

British in-space propulsion company developing compact, high-thrust electric plasma thrusters using solid metal propellant for satellites and spacecraft.



MAGDRIVE

Rogue

The Magdrive Rogue is an integrated electric propulsion system for 2U CubeSats, utilizing a metal propellant and pulsed power to generate high thrust.

Integrated system fits inside	single 2U cubesat
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Dry mass (including propellant, onboard processor, energy storage, and plasma injector)	2.5 kg
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Pulsed power system (pps) delivers	multi-kA, MW class electrical current pulse
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Directional thrust vectoring	up to 10°
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Power	2 – 100 W
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price on request [datasheet](#)



MAGDRIVE

Warlock

The Magdrive Warlock is a compact electric propulsion system for CubeSats, utilizing a metal propellant and pulsed power to generate high thrust.

Integrated system size	2U cubesat
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Dry mass (including propellant, onboard processor, energy storage, and plasma injector)	2.5 kg
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Thrust vectoring	up to 10°
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Power	2 – 100 W
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Thrust	0.1 – 10 N
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price on request [datasheet](#)

RocketStar is a U.S. aerospace technology company developing reusable aerospike rocket engines, water-fueled and fusion-enhanced electric propulsion for spacecraft, and a suite of digital signal processing (DSP) software for secure communica

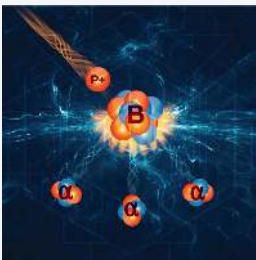


MILES SPACE / ROCKETSTAR
FireStar Foundation Drive

Water-fueled pulsed plasma electric thruster in a 1U form factor for smallsat orbit raising, phasing, de-orbit and attitude control.

Propellant	H2O (filled as liquid; liquid or solid during storage/use)
Envelope	95 x 95 x 95 mm (1U with 5 mm margin)
Wet mass	980 grams
Propellant load	250 grams of liquid, pure water
System power	6 Watts (typical, all thrusters active)

[price on request](#)
[datasheet](#)



MILES SPACE / ROCKETSTAR
FireStar Fusion Drive

Fusion-enhanced evolution of the FireStar water-fueled pulsed plasma thruster, delivering roughly 50% more thrust via aneutronic boron fusion.

Base thruster	FireStar Foundation Drive (water-fueled pulsed plasma)
Fusion fuel additive	Boron (aneutronic fusion in exhaust)
Thrust improvement	~50% higher than FireStar Foundation Drive
Development origin	AFWERX SBIR
Planned flight demo	Rogue Space Systems Barry-2 spacecraft, in-space testing

[price on request](#)
[datasheet](#)

Electric propulsion systems for satellite mobility, deployment, and deorbiting.



MORPHEUS SPACE
GO-2 Electric Propulsion System

Modular ~1U FEEP electric propulsion unit with 40 individually controlled thrusters and solid metallic propellant, for spacecraft from 6U upwards.

Total thrust range	5 microN - 400 microN
Optimal total impulse range	12.4 kNs - 6.2 kNs
Power	7 W - 40 W
Footprint	113 x 98 mm
Dimensions	Approximately 1U modular unit

[price on request](#)



MORPHEUS SPACE
nupro Electro spray Thruster

Morpheus Space's nupro electro spray ion thruster — a miniaturized 'printed' propulsion unit for nanosatellites enabling formation flying and precise constellation orbit management.

Thruster type	Electrospray (ionic liquid)
Thrust range	1–100 μN per emitter array
Specific impulse	1,500–3,000 s
Manufacturing	Additive manufacturing (3D printing) – scalable production

Applications	Formation flying, constellation altitude maintenance, attitude control
price on request	

Neumann Space

AUSTRALIA · 2 PRODUCTS

Australian deep-tech company developing high-performance electric propulsion systems that use solid metal propellant (magnesium) for satellites, enabling cost-effective in-orbit maneuverability.



NEUMANN SPACE

ND-25TC Neumann Drive — Low-Power Nanosatellite Thruster

Neumann Space's ND-25TC is a 14 W, 1.9 kg solid-metal-propellant pulsed cathodic arc thruster for nanosatellites: 880+ Ns total impulse, 1,800–2,000 s Isp, sharing the same propellant

Thruster type	Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT)
Max input power	~14 W
Total wet mass	~1.9 kg
Total impulse	≥880 Ns
Max pulse frequency	~83 mHz

price on request



NEUMANN SPACE

ND-50 Neumann Drive — Pulsed Cathodic Arc Thruster

Neumann Space's ND-50 is a solid-metal-propellant pulsed cathodic arc thruster: 50 W max power, 1,400–2,000 s Isp, 1.4 kg total mass, 100 × 96 × 96 mm, TRL 8–9 with flight heritage

Thruster type	Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT)
Max input power	50 W
Specific impulse (Isp)	1,400–2,000 s (operational); up to ~14,690 s (laboratory, magnesium)
Thrust efficiency	~20 μN/W
Estimated peak thrust	~1 mN at 50 W

price on request

OHB Sweden AB

SWEDEN · 2 PRODUCTS

OHB Sweden builds small satellites, AOCS and propulsion systems. It is a provider of complete space missions, satellites, and spacecraft subsystems.



OH B SWEDEN AB

Electric Propulsion System

OHB Sweden AB offers Electric Propulsion Systems covering various technologies like FEEP, Grid, RF, and SPT, designed with flight heritage and tailored for mission needs.

price on request [datasheet](#)



OH B SWEDEN AB

EPSylon

EPSylon is an Electric Propulsion system for small satellites in a wide power and thrust range, serving both the institutional and commercial market.

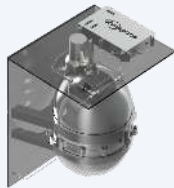
Propellant	Xe
Power	250 W to 400 W per String
Supply voltage	28 V or 70 V

Thrust	8 mN to 18 mN
Specific impulse	950 s to 1390 s (Xe)
price on request datasheet	

OhmSpace

ITALY · 2020 · 3 PRODUCTS

Italian electric propulsion startup developing water-propelled resistojet thruster systems for nanosatellites and microsatellites, offering a safe, low-cost, and high-performance propulsion solution.



OHMSPACE

STAR-Water-micro — Water Resistojet for Microsatellites

High-thrust water resistojet propulsion for microsatellites in LEO mega-constellations — 75–150 mN thrust and 240 s Isp for collision avoidance, de-orbiting, and inclination change

Technology	High-temperature water resistojet
Target ISP	240 s
Propellant	Water (deionized/demineralized)
Power	Up to 500 W
Thrust range	75–150 mN

[price on request](#)



OHMSPACE

STAR-Water-nano — Water Resistojet for Nanosatellites

Plug-and-play water resistojet propulsion system for nanosatellites — achieves >200 s Isp in a 2U-compatible form factor. Developed under ESA GSTP contract; first launch Q2 2026

Technology	High-temperature water resistojet (2,400 K)
Target ISP	> 200 s
Propellant	Water
Form factor	From 2U
Propellant mass	From 250 g

[price on request](#)



OHMSPACE

STAR-X — Xenon Resistojet for GEO Reaction Control

High-Isp xenon (or krypton) resistojet for geostationary satellite Reaction Control Systems, designed as a non-toxic replacement for hydrazine attitude control thrusters.

Technology	High-temperature xenon/krypton resistojet
Target ISP	80–100 s
Propellant	Xenon (Krypton as alternative)
Thrust range	1–2 N
Target platform	Geostationary satellites

[price on request](#)

US electric propulsion company developing Hall-effect thruster systems for commercial small satellites, enabling efficient in-orbit maneuverability for LEO constellations and beyond.



ORBION SPACE TECHNOLOGY
Aurora Hall-effect Propulsion System

Fully integrated, flight-proven Hall-effect propulsion system for demanding LEO/MEO/GEO/xGEO missions — radiation-hardened, magnetically shielded, continuously throttleable from 10

Technology	Hall-effect thruster (HET), magnetically shielded
Power range	100 – 300 W (continuously throttleable)
Thrust-to-power	> 60 mN/kW
Specific impulse (Xe)	1,400 s
Propellant	Xenon or Krypton

price on request

Orbital Arc

Orbital Arc designs and manufactures high power density ion propulsion systems, including the RIOT Drive technology, to enable cost-efficient and scalable space travel.



ORBITAL ARC
Orbital Arc Thruster and PPU

An ultra-low-mass electric propulsion thruster and power processing unit (PPU) combo for a 2 kW system, offering very high power density to save launch mass.

Expected dry mass (thruster + PPU combined)	< 600 g
System power	2 kW
Power density	3,250 W/kg

price on request

Pale Blue develops and manufactures propulsion systems for small satellites, serving satellite integrators and operators worldwide.



PALE BLUE
PBH-100 Hall Effect Thruster

Water-fed Hall effect thruster system for MicroSats, featuring proprietary Japanese microwave cathode technology for instant startup.

Power	110 - 180 W
Thrust	5 - 8 mN
Total impulse	> 50,000 Ns
Wet mass	< 10 kg
Envelope	300 × 300 × 150 mm

price on request



PALE BLUE
PBI Water Ion Thruster

Miniaturized gridded ion thruster using water propellant, offering unprecedented total impulse in a 1U+ form factor for NanoSats and MicroSats.

Power	< 60 W
Thrust	> 0.35 mN
Total impulse	> 7,000 Ns
Wet mass	< 1.6 kg
Envelope	1U+

price on request

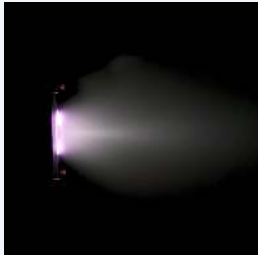


PALE BLUE
PBR-30

The Pale Blue PBR-30 is a flight-proven resistojet propulsion system, offering up to 12 mN of thrust in a compact 2U form factor, designed for non-hazardous launch.

Power	10 - 35 W
Thrust	3 - 12 mN
Total impulse	> 400 Ns
Wet mass	< 2.1 kg
Envelope	2U

price on request



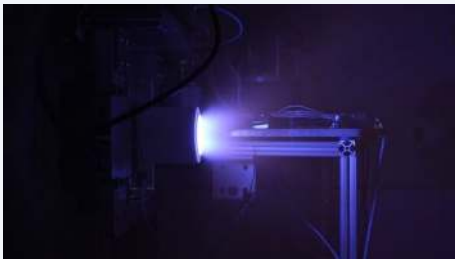
PALE BLUE
Water Hall-effect Thruster

High-power water Hall-effect thruster system for SmallSats up to 700 kg, delivering 10 mN thrust at 600 W and 180,000 Ns total impulse.

Power	600 W
Thrust	10 mN
Total impulse	180,000 Ns
Wet mass	< 45 kg
Envelope	350 × 350 × 600 mm

price on request

US electric propulsion startup developing RF-powered Maxwell plasma thrusters for small satellite propulsion using xenon or krypton propellant.



PHASE FOUR
Maxwell Block 3 RF Plasma Thruster

Turn-key RF electrodeless plasma propulsion system for 20–500 kg satellites — 5.9 kg dry, 8–18 mN thrust, 600–1,300 s Isp, supports Xe/Kr/ASCENT/Hydrazine, from \$250,000.

Dry mass	5.9 kg
Total mass (with 1 kg Xe tank)	8.4 kg
Dimensions	19 × 13.5 × 19 cm
Operating power	300–500 W
Supply voltage	22–34 V

\$250 000

PHASE FOUR
Maxwell RF Ion Thruster

Phase Four's Maxwell thruster — an RF-powered ion propulsion system for smallsats and CubeSats using inert xenon or krypton propellant, with no hollow cathode neutralizer.

Propellant	Xenon or Krypton (inert gas)
Thrust range	1–10 mN
Specific impulse	700–1,500 s
Power range	20–200 W
Key innovation	RF-powered plasma – no hollow cathode neutralizer (major life-limiter removed)

price on request

Pulsar Fusion designs and manufactures electric and hybrid rocket propulsion systems, and is developing fusion propulsion technology for space applications.



PULSAR FUSION
MoonRanger — 5 kW Hall-Effect Thruster

The MoonRanger (PF-MOONRANGER) is Pulsar Fusion's 5–7 kW Hall-effect thruster targeting GEO-class missions, cislunar transfer, and high-power constellation applications. At t

Power	5–7 kW
Thrust target at 5 kW	>280 mN
Thrust target at 7 kW	>350 mN
ISP target at 5 kW	~1,800 s
ISP target at 7 kW	~2,050 s

price on request

British defence technology company delivering mission-critical space capabilities — domain awareness, secure communications, PNT, electric propulsion, and test & evaluation — with over half a century of heritage from the Royal Aircraft Esta



QINETIQ SPACE
T5 Ion Thruster

10 cm gridded Kaufman ion thruster for small satellite electric propulsion — flight-proven on ESA's GOCE satellite with 36,000+ hours accumulated.

Grid diameter	10 cm
Max thrust	~25 mN
Propellant	Xenon
Type	Gridded Kaufman ion thruster
Flight heritage	ESA GOCE (2009–2013)

[price on request](#) [datasheet](#)



QINETIQ SPACE
T6 Ion Thruster

22 cm gridded Kaufman ion thruster — 4.5 kW, 250 mN thrust — flight-proven on ESA's BepiColombo mission to Mercury.

Grid diameter	22 cm
Input power	4.5 kW
Thrust (max)	250 mN
Exhaust velocity	50,000 m/s
Propellant	Xenon

[price on request](#) [datasheet](#)

Rafael Advanced Defense Systems - Space Division

Israeli defence company Rafael's space division; EO satellite payloads, ADCS, propulsion, and communications systems for Israel's national defence satellite and intelligence programmes.

RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
IHET-300 Hall Effect Thruster

The IHET-300 (Israeli Hall Effect Thruster) is the flight-proven core of Rafael's first-generation Electric Propulsion System. It operates on Xenon propellant, which is ioniz

[price on request](#)



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
R-200 Electric Propulsion System (EPS)

The R-200 EPS (Electric Propulsion System) is a complete, turnkey electric propulsion solution built around Rafael's qualified R-200 Hall Effect Thruster. The system integrat

[price on request](#)

RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
R-200 Hall Effect Thruster

The R-200 is a low-power Hall Effect Thruster designed to operate in the 100–300W discharge power range, suitable for low to medium mass satellite platforms under 500 kg. It produc

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
R-800 Electric Propulsion System (EPS)

The R-800 EPS is Rafael’s second-generation Electric Propulsion System following the flight-proven R-400 EPS (Venus satellite). It operates in the 450–900W power range and co

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
R-800 Hall Effect Thruster

The R-800 is a Hall Effect Thruster designed for the 450–900W discharge power range, suitable for low to medium mass satellite platforms up to 1,000 kg. It produces thrust levels o

price on request

SITAEL S.p.A.

ITALY · 1994 · 2 PRODUCTS

Italy's largest privately-owned aerospace company, part of the Angel Group, delivering turn-key smart microsatellite platforms, Hall Effect electric propulsion, and space-qualified electronics.



SITAEL S.P.A.
Electric Propulsion

SITAEL's proprietary Electric Propulsion product line, spanning Hall Effect Thrusters, Magneto Plasma Dynamic thrusters, cathodes, and dedicated power units, supported by in-house

Hall effect thruster power range	~100 W up to tens of kW
Hall effect thruster flight heritage	ESA SMART-1 (space exploration mission)
Mpd thruster power range	a few hundred kW up to multi-MW level

SITAEL S.P.A.
Hall Effect Thrusters (HT-100/HT-400/HT-5k)

Proprietary Hall Effect Thruster line from ~100W to tens of kW for GEO telecom, LEO, and deep-space missions, with flight heritage including ESA SMART-1.

Power range	~100 W up to tens of kW
Ht-100/ht-400 PPU	300 W Power Processing Unit
Ht-5k PPU	5 kW Power Processing Unit
Flight heritage	ESA SMART-1 lunar mission and other programmes
Applications	GEO station-keeping, LEO orbit-raising/de-orbiting, deep space

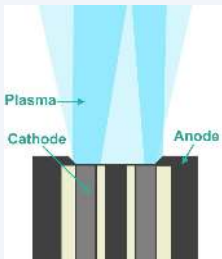
price on request

Mpd thruster experience	Over 30 years of manufacturing and testing
Low power PPU	300 W PPU, coupled with HT 100 / HT 400 thrusters
price on request	

Solid State Propulsion

SOUTH AFRICA · 1 PRODUCT

South African electric Vacuum Arc Thruster company; pulsed plasma thrusters using solid metal fuel for nanosatellite orbit raising, formation flying, and controlled deorbit.

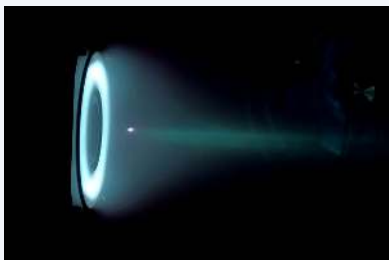


SOLID STATE PROPULSION	
Pocket Rocket Vacuum Arc Thruster	
Fully solid-state, unpressurised vacuum arc thruster in a 45x45x25 mm package: 200 uN maximum thrust, 700 s Isp, 85 g wet mass, 8 Ns total impulse.	
Maximum thrust	200 uN
Specific impulse	700 s
Input power	0.5 - 20 W
Thrust to power ratio	10 uN/W
Pulse repetition rate	0.1 - 10 Hz
price on request datasheet	

Space Electric Thruster Systems (SETS)

UKRAINE · 2016 · 6 PRODUCTS

Ukrainian (Dnipro) manufacturer of Hall-effect electric propulsion systems for satellites: thrusters, power processing units, and xenon feed systems, with flight heritage since 2023.



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)	
SPS-100 Propulsion System	
The SPS-100 is an electric propulsion system designed for medium and large satellites, providing power from 1000 W to 1750 W for orbit maintenance, orbital maneuvers, and deep space	
Total power consumption	Up to 1750 W
Thrust	Up to 95 mN (0.095 N)
Dry mass (without tank)	Up to 20 kg



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)	
SPS-40 Propulsion System	
The SPS-40 is a high-efficiency electric propulsion system for a wide range of space missions, offering precise orbit control and high total impulse with minimal propellant consump	
Total power consumption	300-600 W
Thrust	Up to 31 mN (0.031 N)
Dry mass (without tank)	Up to 9 kg

Total impulse	Up to 3 MN*s (one thruster configuration)
Propellant	Xenon, Krypton
price on request datasheet	



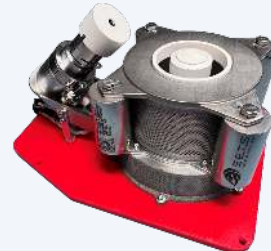
SPACE ELECTRIC THRUSTER SYSTEMS (SETS) ST-100 Hall Thruster

The ST-100 is a 1.5 kW Hall-Effect Thruster developed by SETS for a wide range of spacecraft applications, offering high parameters, reliability, and a long lifetime.

Consumption power	800-1500 W
Thrust	50-95 mN (0.05-0.095 N), depends on input power
Specific impulse	1400-1900 s
Efficiency	Up to 56%
Propellant	Xenon, Krypton

[price on request](#) [datasheet](#)

Total impulse	Up to 300 kN*s (one thruster configuration)
Propellant	Xenon, Krypton
price on request datasheet	



SPACE ELECTRIC THRUSTER SYSTEMS (SETS) ST-25 Hall Thruster

The ST-25 is a compact Hall-effect thruster designed for small satellite missions, offering efficient, low-thrust propulsion with high specific impulse.

Consumption power	100-250 W
Thrust	5-15 mN (0.005-0.015 N)
Specific impulse	950-1500 s
Efficiency	Up to 40%
Propellant	Xenon, Krypton

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS) ST-40 Hall Thruster

The ST-40 Hall Thruster is a low-cost, multi-propellant electric propulsion solution designed for LEO-GEO satellites and constellation missions, offering flexibility in thrust and

Consumption power	250-600 W
Thrust	13-36 mN (0.013-0.036 N)
Specific impulse	1000-1750 s
Efficiency	Up to 46%
Propellant	Xenon, Krypton

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS) XFS (Xenon Feed System)

The Xenon Feed System (XFS) is designed to work with Electric Propulsion Systems and Hall-effect thrusters, managing xenon gas pressure and mass flow rates.

Inlet pressure	Up to 180 bar
Nominal flow rate (anode)	Up to 3 mg/s
Nominal flow rate (cathode)	Up to 0.5 mg/s
Dimensions	145 x 127 x 115 mm
Propellant	Xenon, Krypton

[price on request](#) [datasheet](#)

Flight-proven water-based electrothermal propulsion systems for CubeSats and small satellites.



STEAMJET SPACE
TunaTank Thruster

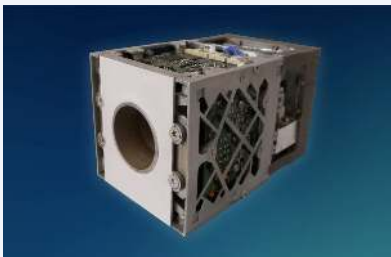
Semi-external, water-based electrothermal thruster with customizable internal fuel tanks, delivering up to 50x more thrust than traditional electric propulsion for 3U-16U small sat

Wet mass	~0.9 kg
Specific impulse	172 s
Thrust	5-20 mN
Total impulse	Up to 600 Ns
Peak power	<20 W

£54 990

T4i - Technology for Propulsion and Innovation

Cold gas, monopropellant, and electric (iodine) propulsion systems for small satellites, deployers, and orbital transfer vehicles.



T4I - TECHNOLOGY FOR PROPULSION AND INNOVATION
REGULUS Electric Propulsion

Iodine-fed electric propulsion system family for small satellites, deployers, and OTVs, from 50 W to 150 W.

Propellant	Iodine (I2)
Configurations	REGULUS-50-I2 (Small/Medium/Large), REGULUS-150-I2
Total impulse	3000 Ns (50-I2 Small) / 7000 Ns (50-I2 Medium) / 11000 Ns (50-I2 Large) / 11000 Ns (150-I2)
Thrust	0.25-0.65 mN (0.55 mN @ 50 W) for REGULUS-50-I2; 0.55-2.00 mN (2.00 mN @ 150 W) for REGULUS-150-I2
Specific impulse	650 s (550 s @ 50 W) for REGULUS-50-I2; 550-800 s (800 s @ 150 W) for REGULUS-150-I2

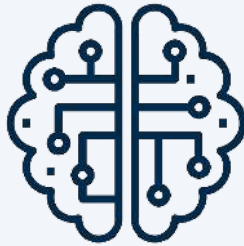
s @ 150 W) for REGULUS-150-I2

price on request

ThrustMe

FRANCE · 2017 · 3 PRODUCTS

ThrustMe designs and manufactures turnkey iodine-fuelled electric propulsion systems for satellite constellations, with products tested in space and delivered to clients worldwide.



THRUSTME

NPT30-I2

The NPT30-I2 is an iodine electric space propulsion system designed to be true turnkey, safe, and standalone, enabling an optimal tradeoff between time and cost for satellite mission.

price on request



THRUSTME

NPT30-I2 Iodine Ion Thruster for CubeSats and SmallSats

ThrustMe is a French electric propulsion startup founded in 2017 as a spin-off from Ecole Polytechnique and LPP (Laboratoire de Physique des Plasmas), developing miniaturized iodine.

price on request

THRUSTME

ThrustMe In-Space Propulsion Solutions

ThrustMe provides advanced in-space propulsion solutions, including iodine-fueled electric propulsion systems, designed for satellite constellations and orbital maneuvering.

Flight heritage

World's first in-orbit
demonstration of iodine-
fuelled electric propulsion
systems in 2019

price on request

URA Thrusters

UNITED KINGDOM · 2019 · 1 PRODUCT

UK electric propulsion company; Hall-effect thrusters using water vapour or gaseous oxygen; electrolysis propulsion and microwave electrothermal thrusters; green propellant alternatives.



URA THRUSTERS

URA HET (Hall-effect Thruster) – WETHET / AquaHET

Family of Hall-effect thrusters operating on gaseous oxygen (WETHET) or water vapour (AquaHET), offering high specific impulse with a fully European supply chain.

Model

WETHET-2000

Thrust	48 mN
Specific impulse (Isp)	3000 s
Power	2000 W
Propellant	O2/H2 (water/oxygen electrolysis)
price on request	

VACCO Industries

UNITED STATES · 1954 · 1 PRODUCT

US manufacturer of precision fluid control components and integrated propulsion systems for spacecraft, with 70+ years of heritage. Products include micro propulsion systems, valves, pressure regulators, and CubeSat propulsion modules.



VACCO INDUSTRIES

VACCO CubeSat Propulsion and ChEMS Flow Control Modules

Patented ChEMS titanium micro-manifold modules integrating valves, filters, sensors and thrusters into compact CubeSat/SmallSat propulsion feed systems.

Technology	ChEMS — Chemically Etched Micro Systems (patent #6,334,301), titanium micro-manifolds
Filtration range	2 to 100 microns absolute
Sensor range	20 to 3,000 psia
Integrated elements	Valves (NC, latch, proportional), filters, sensors, cold/warm-gas thrusters, heaters, elec
Flight heritage	JPL MarCO (first CubeSats to Mars), NEA Scout, CuSP, AFRL PUC

price on request

datasheet

Viridian Space

UNITED STATES · 2021 · 2 PRODUCTS

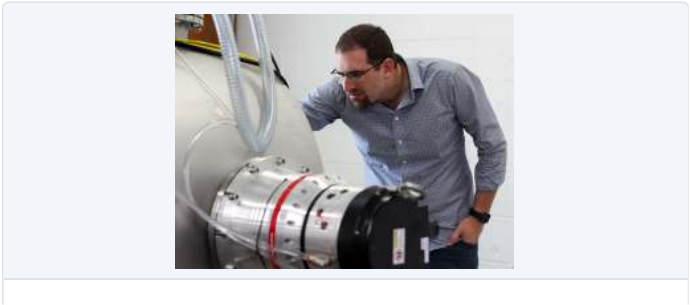
VLEO air-scooping electric thruster (ASET) company; harvests atmospheric propellant for refuelable satellite platforms enabling sustainable very-low-Earth-orbit operations.

VIRIDIAN SPACE

Air-Scooping Electric Thruster (ASET) — Air-Breathing VLEO Propulsion

The Air-Scooping Electric Thruster (ASET) is Viridian Space Corporation’s patent-pending flagship propulsion technology that enables satellites to operate indefinitely in Ver

Operating altitude (VLEO)	150–300 km
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Air-scoop type	Turbomolecular Active air-Scoop (TASC)
Atmospheric propellant	Atomic oxygen (>180 km), molecular nitrogen (lower altitudes)
Compression ratio	3,000–40,000 (altitude-dependent)
Collection efficiency	≥80%

[price on request](#)[datasheet](#)

VIRIDIAN SPACE
ASET Air-Scooping Electric Thruster

Air-breathing electric propulsion system that harvests residual upper-atmosphere gas in Very Low Earth Orbit and converts it into thruster propellant, enabling refuelable, indefinite

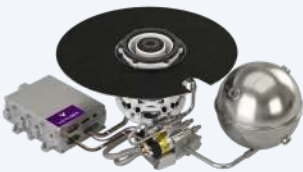
Propulsion type	Air-breathing electric thruster (ABEP)
Propellant source	Atmospheric gas collected in-orbit (no onboard propellant tank required)
Target orbit regime	Very Low Earth Orbit (VLEO)
Key applications	Earth observation, broadband communications, in-orbit servicing/assembly/manufacturing (IS)

[price on request](#)[datasheet](#)

Voyager Technologies

UNITED STATES · 2019 · 1 PRODUCT

Diversified space and defense technology company building Starlab, a commercial ISS-successor space station, alongside national-security space and defense electronics systems.



VOYAGER TECHNOLOGIES
Halo12 Kit

The Halo12 Kit is a complete electric propulsion package built around the Halo12 Hall-effect thruster, integrating the thruster, power processing unit, and support hardware into a

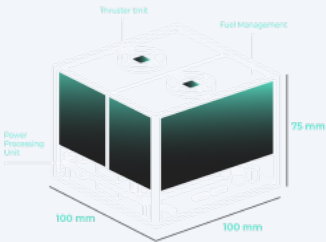
Thruster type	Hall-effect (Halo12)
Kit contents	Thruster + power processing unit + support hardware

[price on request](#)

XIROI

SPAIN · 2021 · 1 PRODUCT

XIROI develops advanced electrospray electric propulsion systems for small satellites and CubeSats.



XIROI

Plugim Electrospray Thruster

Self-neutralizing electrospray propulsion module for CubeSats, targeting over 2000 Ns total impulse and over 800 s Isp under 10 W.

Figures are	Vendor-stated performance requirements (design targets), not measured results
Total impulse	> 2000 Ns
Delta-v (3U)	> 500 m/s
Specific impulse	> 800 s
Thrust	> 0.35 mN

price on request

Yuzhnoye Design Bureau

UKRAINE · 1954 · 2 PRODUCTS

Yuzhnoye State Design Office (KB Pivdenne) is Ukraine's premier rocket and space engineering organization, providing full-cycle development of launch vehicles, spacecraft, and propulsion systems. Founded in 1954 and headquartered in Dnipro,



YUZHNOYE DESIGN BUREAU
Ablation Jet Engine

The Ablation Jet Engine developed by Yuzhnoye SDO is a pulsed plasma thruster-type propulsion system intended for changing and maintaining nanosatellite relative orbital position d

Working medium	Fluoroplastic (PTFE)
Thrust	0.1 mN
Specific impulse	20,000 m/s
Total impulse	200 N*s
Maximum power	20 W

price on request



YUZHNOYE DESIGN BUREAU
Ammonia Jet Propulsion System (APS)

The Ammonia Jet Propulsion System (APS) developed by Yuzhnoye SDO is designed for correction of spacecraft injection errors in orbital period and maintenance of orbital period thro

Propellant	Ammonia
Number of engines	2
Engine thrust	0.049 N
Total thrust impulse (hot mode)	7,000 N*s
Total thrust impulse (cold mode)	2,500 N*s

price on request

Manufacturers in this sector

Accion Systems

United States · 2014 · 2 products

US startup developing TILE electrospray propulsion chips for nanosatellites — ultra-compact, modular electric propulsion scaled from CubeSats to larger platforms.

Airbus Defence and Space

France · 2014 · 1 product

Airbus Defence and Space designs and manufactures satellites, spacecraft equipment, and provides related services for telecommunications, navigation, Earth observation, and space exploration

Apollo Fusion (Astra)

United States · 2 products

Apollo Fusion (Astra) designs and manufactures flight-proven electric propulsion systems for satellites and provides launch services, headquartered in Alameda, California.

Ascend Beyond Space

United States · 2021 · 1 product

Space technology startup developing solutions for orbital logistics and in-space operations.

ATI Space (Advanced Technology Institute)

Japan · 2008 · 1 product

Advanced Technology Institute (ATI) is a Tokyo-based space engineering firm supporting satellite and launch vehicle development, manufacturing thermal vacuum chambers, and supplying space-gr

Bellatrix Aerospace

India · 2015 · 3 products

Indian in-space propulsion company developing electric and green chemical thrusters and orbital transfer vehicles for missions from nanosatellites to GEO platforms.

Busek Co.

United States · 1985 · 17 products

Busek Co. Inc. designs, develops, and manufactures electric propulsion thrusters and related space hardware for military, government, and commercial satellites, with a focus on Hall, electro

DeltaX Propulsion

United States · 2 products

Developer of electrospray thrusters using nanomaterials science for efficient electric propulsion of small satellites and spacecraft.

Aerojet Rocketdyne (L3Harris)

United States · 1915 · 3 products

Major US propulsion company (now part of L3Harris); RL10, RS-25/SLS engines, satellite thrusters, and solid rocket motors; 75+ years heritage powering US launch vehicles.

aliena

Singapore · 2018 · 7 products

Aliena develops and manufactures Hall thruster systems for small satellites, providing integrated propulsion solutions for various satellite classes from nanosatellites to medium satellites.

Applied Ion Systems

United States · 3 products

Applied Ion Systems develops and tests micro End Hall Thrusters for electric propulsion.

Astra Space

United States · 2016 · 2 products

Astra Space designs and manufactures responsive mobile launch systems (Rocket 4.0) and flight-proven electric propulsion systems for satellites, headquartered in Alameda, California.

Aurora Propulsion Technologies

Finland · 2018 · 3 products

Finnish manufacturer of water-propellant resistojet thrusters and propellant-free plasma brake deorbiting tethers for small satellites, from CubeSats to SmallSats.

Blue Orbit Space Systems

Germany · 3 products

Blue Orbit Space Systems is a German deep-tech startup based in Bremen that develops electric propulsion systems for small satellites and plasma-based solutions for industrial applications.

CU Aerospace

United States · 5 products

Small satellite propulsion systems developer specializing in electric and chemical thrusters for CubeSats and small spacecraft.

ENPULSION GmbH

Austria · 2016 · 6 products

Austrian manufacturer of Field Emission Electric Propulsion (FEEP) systems for nano- and microsatellites, with over 200 propulsion units delivered to orbit.

EREMS

France · 1979 · 1 product

EREMS is a French SME founded in 1979, specializing in the design and realization of electronic equipment and software for high technology fields including Space.

ExoTerra Resource

United States · 2011 · 1 product

US developer of miniaturized Hall effect thrusters and propellant distribution systems for high-impulse, affordable microsatellite and CubeSat propulsion.

Exotrail

France · 2017 · 3 products

French electric propulsion company; ExoMG™ Hall thrusters for satellite orbit raising, station-keeping, and deorbit; SpaceCloud OTV and SpaceOps software.

Glavkosmos

Russia · 1985 · 23 products

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

Hongqing Technology (鸿擎科技)

China · 2021 · 2 products

Beijing satellite constellation company partnered with Blue Arrow Aerospace; develops communications, remote sensing, and science satellites plus in-house Jinwu propulsion, Chiyu power, and

Howe Industries

United States · 2018 · 2 products

Howe Industries is a Scottsdale, Arizona propulsion startup developing advanced space technologies including ThermoSat water-propellant electrothermal CubeSat thrusters, nuclear pulsed plasm

Hypernova Space Technologies

South Africa · 2018 · 1 product

South Africa-based space hardware company developing the Lumen thermal vacuum testing system and providing TVAC test services for the aerospace industry.

ION-X

France · 2021 · 1 product

French startup developing ionic liquid electrospray thrusters for CubeSat and small satellite on-orbit propulsion; founded 2021.

ISS Reshetnev

Russia · 1959 · 1 product

Russian satellite manufacturer in Zheleznogorsk, Siberia; GLONASS-K/M navigation, Express GEO comms, Luch data relay, and Yamal satellites; 1,400+ spacecraft built.

Kreios Space

Spain · 2024 · 1 product

Spanish space technology startup developing satellite constellation infrastructure and communications solutions.

Lanzo Batteries

1 product

Lanzo Batteries designs and manufactures lithium-ion battery packs for space energy storage, serving large satellites, small satellites, and CubeSats.

Magdrive

United Kingdom · 2019 · 2 products

British in-space propulsion company developing compact, high-thrust electric plasma thrusters using solid metal propellant for satellites and spacecraft.

Miles Space / RocketStar

United States · 2014 · 2 products

RocketStar is a U.S. aerospace technology company developing reusable aerospike rocket engines, water-fueled and fusion-enhanced electric propulsion for spacecraft, and a suite of digital si

Morpheus Space

Germany · 2018 · 2 products

Electric propulsion systems for satellite mobility, deployment, and deorbiting.

Neumann Space

Australia · 2 products

Australian deep-tech company developing high-performance electric propulsion systems that use solid metal propellant (magnesium) for satellites, enabling cost-effective in-orbit maneuverabil

OHB Sweden AB

Sweden · 2 products

OHB Sweden builds small satellites, AOCS and propulsion systems. It is a provider of complete space missions, satellites, and spacecraft subsystems.

OhmSpace

Italy · 2020 · 3 products

Italian electric propulsion startup developing water-propelled resistojet thruster systems for nanosatellites and microsatellites, offering a safe, low-cost, and high-performance propulsion

Orbital Arc

1 product

Orbital Arc designs and manufactures high power density ion propulsion systems, including the RIOT Drive technology, to enable cost-efficient and scalable space travel.

Phase Four

United States · 2015 · 2 products

US electric propulsion startup developing RF-powered Maxwell plasma thrusters for small satellite propulsion using xenon or krypton propellant.

QinetiQ Space

United Kingdom · 2001 · 2 products

British defence technology company delivering mission-critical space capabilities — domain awareness, secure communications, PNT, electric propulsion, and test & evaluation — with over half

SITAEL S.p.A.

Italy · 1994 · 2 products

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T4i - Technology for Propulsion and Innovation

Italy · 2014 · 1 product

Cold gas, monopropellant, and electric (iodine) propulsion systems for small satellites, deployers, and orbital transfer vehicles.

URA Thrusters

United Kingdom · 2019 · 1 product

UK electric propulsion company; Hall-effect thrusters using water vapour or gaseous oxygen; electrolysis propulsion and microwave electrothermal thrusters; green propellant alternatives.

Orbion Space Technology

United States · 1 product

US electric propulsion company developing Hall-effect thruster systems for commercial small satellites, enabling efficient in-orbit maneuverability for LEO constellations and beyond.

Pale Blue

2020 · 4 products

Pale Blue develops and manufactures propulsion systems for small satellites, serving satellite integrators and operators worldwide.

Pulsar Fusion

United Kingdom · 2011 · 1 product

Pulsar Fusion designs and manufactures electric and hybrid rocket propulsion systems, and is developing fusion propulsion technology for space applications.

Rafael Advanced Defense Systems - Space Division

Israel · 5 products

Israeli defence company Rafael's space division; EO satellite payloads, ADCS, propulsion, and communications systems for Israel's national defence satellite and intelligence programmes.

Solid State Propulsion

South Africa · 1 product

South African electric Vacuum Arc Thruster company; pulsed plasma thrusters using solid metal fuel for nanosatellite orbit raising, formation flying, and controlled deorbit.

SteamJet Space

United Kingdom · 2017 · 1 product

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ThrustMe

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United States · 1954 · 1 product

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Voyager Technologies

United States · 2019 · 1 product

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XIROI

Spain · 2021 · 1 product

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Yuzhnoye Design Bureau

Ukraine · 1954 · 2 products

Yuzhnoye State Design Office (KB Pivdenne) is Ukraine's premier rocket and space engineering organization, providing full-cycle development of launch vehicles, spacecraft, and propulsion sys

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