

NEWSPACE MARKET · COMPANY PROFILE



Aerojet Rocketdyne (L3Harris)

United States · founded 1915 · l3harris.com

14

PRODUCTS

newspacemarket.com/companies/aerojet-rocketdyne-l3harris/

as of 20 August 2026



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.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

PRODUCTS

Product catalogue



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)

AMBR 556 N Dual Mode High Performance Rocket Engine

556 N (125 lbf) Advanced Materials Bipropellant Rocket dual mode high performance engine for deep space and GEO missions.

Thrust	556 N (125 lbf)
Type	Dual mode high performance rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer

price on request

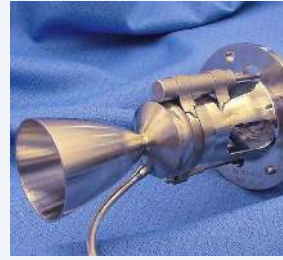


AEROJET ROCKETDYNE (L3HARRIS)
Green Propulsion Systems (AF-M315E)

Non-hydrazine green propellant propulsion, including modular 1U to 8U CubeSat propulsion systems offering up to 750 m/s delta-v.

Propellant	AF-M315E green propellant (hydrazine alternative)
Performance	50 percent higher performance than a traditional hydrazine system
CubeSat module sizes	1U to 8U
Delta-v capability	Up to 750 m/s
Flight demonstration	NASA Green Propellant Infusion Mission (GPIM)

price on request



AEROJET ROCKETDYNE (L3HARRIS)
Hydrazine Monopropellant Rocket Engines

Hydrazine monopropellant engine family from 0.02 lbf to 700 lbf thrust, with more than 19,000 units delivered.

Thrust range	0.02 lbf to 700 lbf
Propellant	Hydrazine (catalytic decomposition)
Units delivered	More than 19,000
Applications	Planetary transit course corrections, orbital capture and insertion, landing, precision po

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)
R-1E 110 N Bipropellant Rocket Engine

110 N (25 lbf) storable bipropellant rocket engine for in-space maneuvering and attitude control.

Thrust	110 N (25 lbf)
Type	Bipropellant rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer

price on request



AEROJET ROCKETDYNE (L3HARRIS)
R-42 890 N Bipropellant Rocket Engine

890 N (200 lbf) storable bipropellant rocket engine for orbit raising and in-space maneuvering.

Thrust	890 N (200 lbf)
Type	Bipropellant rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer
price on request	



AEROJET ROCKETDYNE (L3HARRIS)
R-42DM 890 N Dual Mode High Performance Rocket Engine

890 N (200 lbf) dual mode high performance rocket engine for spacecraft orbit raising and maneuvering.

Thrust	890 N (200 lbf)
Type	Dual mode high performance rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer
price on request	



AEROJET ROCKETDYNE (L3HARRIS)
R-4D-11 490 N Bipropellant Rocket Engine

490 N (110 lbf) bipropellant rocket engine from the R-4D family originally developed for the Apollo programme.

Thrust	490 N (110 lbf)
Type	Bipropellant rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer
Family	R-4D
price on request	



AEROJET ROCKETDYNE (L3HARRIS)
R-4D-15 HiPAT 445 N High Performance Rocket Engine

445 N (100 lbf) high performance bipropellant apogee engine, available in dual mode configuration; the R-4D lineage is the world's most reliable apogee insertion engine.

Thrust	445 N (100 lbf)
Type	Bipropellant; high performance and dual mode high performance configurations
Propellants	Hydrazine or MMH fuel with NTO oxidizer
Flight record (R-4D family)	Over 390 apogee-insertion missions for GEO satellites, 100% success rate
price on request	



AEROJET ROCKETDYNE (L3HARRIS)
R-6F 22 N Bipropellant Rocket Engine

22 N (5 lbf) storable bipropellant rocket engine for fine in-space maneuvering and attitude control.

Thrust	22 N (5 lbf)
Type	Bipropellant rocket engine
Propellants	Hydrazine or MMH fuel with NTO oxidizer

price on request

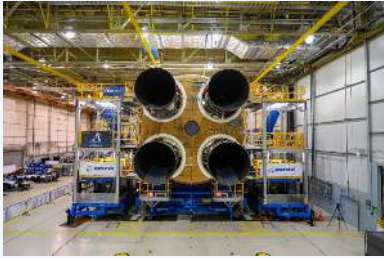


AEROJET ROCKETDYNE (L3HARRIS)
RL-10 Upper Stage Engine Family

Liquid hydrogen / liquid oxygen upper-stage engine family powering Atlas V, Delta IV Heavy, Vulcan Centaur and NASA SLS, in service for six decades.

Propellants	Fuel: liquid hydrogen; Oxidizer: liquid oxygen
RL10B-2 / RL10C-2-1 (Delta IV)	Thrust 24,750 lbf; weight 664 lbs; MR 5.88:1; Isp 465.5 s; length 86.5 in stowed / 163.5 i
RL10A-4-2 (Atlas V)	Thrust 22,300 lbf; weight 370 lbs; MR 5.5:1; Isp 451.0 s; length 90 in; nozzle diameter 46
RL10C-1 (Atlas V)	Thrust 22,890 lbf; weight 420 lbs; MR 5.5:1; Isp 449.7 s; length 86 in; nozzle diameter 57
RL10C-1-1 (Atlas V, Vulcan Centaur)	Thrust 23,825 lbf; weight 415 lbs; MR 5.5:1; Isp 453.8 s; length 96.7 in; nozzle diameter
RL10C-X (Vulcan Centaur)	Thrust 24,120 lbf; weight 510 lbs; MR 5.5:1; Isp 460.9 s; length 130.4 in; nozzle diameter
RL10C-3 (SLS Exploration Upper Stage)	Thrust 24,340 lbf; weight 508 lbs; MR 5.7:1; Isp 460.1 s; length 124.3 in; nozzle diameter

price on request

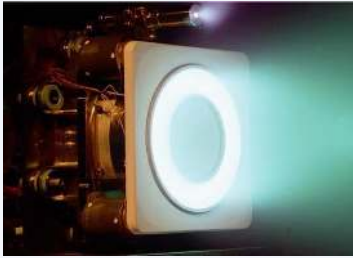


AEROJET ROCKETDYNE (L3HARRIS)
RS-25 Rocket Engine — Space Launch System Core Stage Propulsion

Staged-combustion LH2/LOX core stage engine for NASA's Space Launch System, evolved from the Space Shuttle Main Engine.

Cycle	Staged combustion
Propellants	Fuel: liquid hydrogen; Oxidizer: liquid oxygen; mixture ratio (O/F) 6.0
Thrust at 109% power level	Vacuum 512,300 lb; sea level 418,000 lb
Chamber pressure	2,994 psia
Specific impulse at 109% power level	Vacuum 452 s; sea level 366 s
Dimensions	Length 168 in; diameter 96 in
Weight	7,775 lb

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

Contact Aerojet Rocketdyne (L3Harris)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/aerojet-rocketdyne-l3harris/>

<https://www.l3harris.com>

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