

NEWSPACE MARKET · COMPANY PROFILE

Rafael Advanced Defense Systems - Space Division

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PRODUCTS

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Rafael Advanced Defense Systems - Space Division

Rafael Advanced Defense Systems Space Division is a key division of Israel's state-owned Rafael Advanced Defense Systems, one of the world's leading defense technology companies. Rafael's space division develops satellite propulsion systems, attitude control hardware, electro-optical payloads, and communications subsystems for Israeli national security satellite programs and international partners. The division's product portfolio includes monopropellant and bipropellant hydrazine thrusters, Hall-effect electric thrusters, and complete propulsion assemblies for government and commercial spacecraft. Rafael space hardware has flown on Israel's Ofek and Amos satellite series, demonstrating a strong national defense heritage. The division also supports commercial satellite programs with certified, flight-proven propulsion and electro-optics, leveraging decades of experience in high-reliability space systems developed for Israeli intelligence and defense agencies.

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Product catalogue



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION 1N Monopropellant Hydrazine Thruster

The Rafael 1N Monopropellant Hydrazine Thruster generates the required thrust for maneuvering satellites by means of a hot gas jet created by hydrazine decomposition and expansion

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION 200N Monopropellant Hydrazine Thruster

The Rafael 200N Monopropellant Hydrazine Thruster is a high-thrust space propulsion unit designed for integration into Roll Attitude Control System (RACS) clusters for satellite la

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION 25N Monopropellant Hydrazine Thruster

The Rafael 25N Monopropellant Hydrazine Thruster is designed for high-thrust satellite maneuvers, providing 9.5 to 28 N of steady-state thrust across its operational feed pressure

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION 5N Monopropellant Hydrazine Thruster

The Rafael 5N Monopropellant Hydrazine Thruster is designed for satellite attitude control and orbit correction maneuvers. It produces steady-state thrust from 1.8 N at 5.5 bar to

price on request



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 PEPT-230 Diaphragm Propellant Tank

The PEPT-230 (Positive Expulsion Propellant Tank) is a spherical titanium propellant tank with 6 liters nominal volume designed for hydrazine monopropellant propulsion systems. Pos

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
PEPT-260 Diaphragm Propellant Tank

The PEPT-260 is a spherical titanium propellant tank with 9.3 liters nominal volume for hydrazine monopropellant propulsion systems. It uses an EPN-40 silica-free EPDM diaphragm fo

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
PEPT-420N Diaphragm Propellant Tank

The PEPT-420N is a large-volume spherical titanium propellant tank with 37.5 liters nominal volume and 30 kg maximum hydrazine capacity. It is one of Rafael's most heritage-r

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
PEPT-590 Diaphragm Propellant Tank

The PEPT-590 is a large-volume spherical titanium propellant tank with 102.5 liters nominal net volume and 75 kg propellant capacity, designed for major satellite platform propulsi

price on request



RAFAEL ADVANCED DEFENSE SYSTEMS - SPACE DIVISION
PEPT-590GB Diaphragm Propellant Tank

The PEPT-590GB is Rafael's highest-capacity propellant tank, providing 204 liters nominal volume and 154 kg propellant capacity in a cylindrically extended hemisphere configu

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

Contact Rafael Advanced Defense Systems - Space Division

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.

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