

NEWSPACE MARKET · COMPANY PROFILE



Reaction Dynamics

Canada · founded 2017 · reactiondynamics.space

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PRODUCTS

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SERVICES

newspacemarket.com/companies/reaction-dynamics/

as of 20 August 2026



Reaction Dynamics

Reaction Dynamics designs and manufactures hybrid rockets for small satellite launch capabilities. Their flagship product is the RDX Aurora rocket, which utilizes patented hybrid rocket technology to provide dedicated launch services. The company aims to reduce launch costs and increase reliability and performance through a low part count and simplified production process. They design rockets for weekly launches and offer stockpile-friendly solutions for customers.

Reaction Dynamics targets small satellite operators for reliable and cost-effective Low Earth Orbit launches, as well as commercial and defense sectors for rapid, routine, and sovereign access to orbit. They are headquartered in Longueuil, Quebec, Canada, with a test site in Joliette, Quebec. The company was founded in 2017. Reaction Dynamics is one of several ITAR-free rocket providers, with their rockets designed and manufactured in Canada. A maiden suborbital space launch is scheduled for 2026, and a first orbital launch is scheduled for 2028. The Aurora demonstrator is scheduled for a demonstration launch in 2026.

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SERVICES

Services

Establishing a Canadian launch platform

In partnership with Maritime Launch Services, Reaction Dynamics is establishing a Canadian launch platform to provide sovereign launch capability for Canada.

Responsive launch capability

Reaction Dynamics offers responsive launch services with stockpiled, distributed, and on-demand rockets that can be launched from remote locations with minimal infrastructure.

Small-satellite launch capability

Reaction Dynamics offers dedicated launch services for small satellites into Low Earth Orbit using its Aurora rocket, emphasizing reliability and cost-effectiveness.

Product catalogue



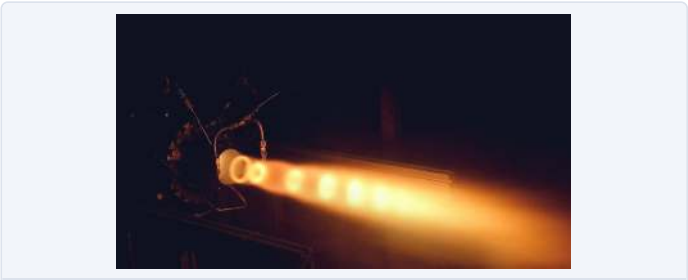
REACTION DYNAMICS

Aurora

Aurora is a two-stage hybrid rocket designed to provide responsive, on-demand, and affordable launch capabilities for small satellites, ensuring sovereign and ITAR-free space acces

Powered by	RE-202C
Payload capacity	up to 200kg

price on request



REACTION DYNAMICS

Hermes

Hermes is an integrated propulsion unit for small satellites, offering responsive mobility and mission flexibility using hydrogen peroxide propellant.

Propellant	Hydrogen Peroxide (HTP)
Form Factor	Built around a 4U CubeSat form factor
Integration	Flexible integration for extended missions, streamlined integration into various satellite
Propellant Safety	Safer and REACH compliant alternative to hydrazine, safe to store
Performance	High thrust and quick response times (compared to electric propulsion systems), reliable p
Support	End-to-end support for every mission, launch and in-orbit support, technical expertise acr

price on request

REACTION DYNAMICS

RDX Aurora

RDX Aurora is a two-stage rocket providing dedicated, small-satellite launch capability using hybrid rocket technology for reliable and cost-effective access to Low Earth Orbit.

Payload to SSO	up to 250kg
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price on request

Contact Reaction Dynamics

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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<https://www.reactiondynamics.space>

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