

NEWSPACE MARKET · COMPANY PROFILE

Impulse Space

US Orbital Transfer

Impulse Space

United States · founded 2021 · impulsespace.com

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PRODUCTS

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SERVICES

newspacemarket.com/companies/impulse-space/

as of 27 August 2026

Impulse Space

Impulse Space is a US in-space mobility company building the Mira and Helios orbital transfer vehicles to move satellites and payloads between orbits, including LEO-to-GEO delivery and rideshare missions.

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.

SERVICES

Services

Mira — Orbital Transfer Vehicle (OTV) / Last-Mile Delivery

Mira is an Orbital Transfer Vehicle (OTV) designed for last-mile delivery, enabling efficient in-space mobility for payloads.

PRODUCTS

Product catalogue



IMPULSE SPACE

GEO Rideshare Program

Impulse Space's GEO Rideshare Program offers reliable, rapid, and cost-effective deployment of small satellites to Geostationary Earth Orbit (GEO) at a regular cadence using its He

price on request



IMPULSE SPACE

Helios

Helios is a high-energy kick stage designed to provide same-day delivery to distant orbits for commercial, civil, and government missions, significantly reducing transit times and

Payload Capacity	up to 4,000 kg
LEO to GEO Transit Time	less than 24 hours
Deneb Engine Vacuum Thrust	67 kN (15,000 lbf)
Deneb Engine Isp	380+ seconds
Deneb Engine Propellants	Liquid oxygen and liquid methane

price on request



IMPULSE SPACE

Helios Orbital Transfer Vehicle

Impulse Space's Helios — a high-energy orbital transfer vehicle (space tug) using hypergolic propulsion for rapid maneuvering and delivery to MEO, GTO, and beyond.

Vehicle type	Orbital Transfer Vehicle (OTV) / Space Tug
Propulsion	Hypergolic (high thrust, storable)
Target orbits	MEO, GEO, GTO, cislunar, deep space
Vs. mira	Higher energy / longer range missions than Mira (LEO tug)
Compatibility	Rideshare on Falcon 9, Falcon Heavy, and others
Founder	Tom Mueller (SpaceX co-founder, Merlin/Raptor engineer)
HQ	Redondo Beach, California, USA

price on request



IMPULSE SPACE

Mira

Mira is an agile spacecraft providing precise, responsive payload hosting and deployment across any orbit, with flight-proven performance for dynamic space operations.

Orbits	LEO, MEO, GEO, cislunar, and beyond
Payload Capacity	Up to 300 kg
Payload Volume	>1 m³
Payload Interface	4"x4" grid bolt pattern
Delta-V (300 kg payload)	550 m/s
Delta-V (200 kg payload)	650 m/s
Delta-V (100 kg payload)	850 m/s

price on request



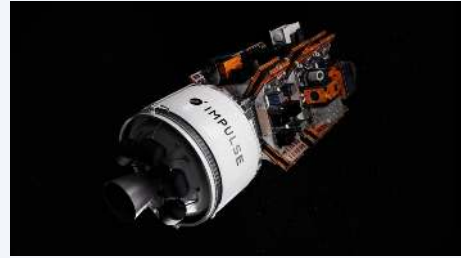
IMPULSE SPACE

Mira Orbital Transfer Vehicle

Impulse Space's chemical propulsion orbital transfer vehicle (OTV) for last-mile satellite delivery from rideshare deployment orbits.

Propellants	Ethane/LOX
Mission type	Last-mile orbital transfer from rideshare drop-off
First mission	January 2024 (Mira-1)
Founder	Tom Mueller (SpaceX propulsion co-founder)
Location	Hawthorne, California, USA

price on request



IMPULSE SPACE

Rideshare Helios Mira

Impulse Space offers cost-effective rideshare programs, Helios and Mira, providing access to various orbits for small payloads, with options for same-day delivery to high-energy or

Standard Plate Mass	300 kg included, 700 kg max
Tallboy Plate Mass	700 kg included, 1400 kg max
Standard Plate Payload Interfaces	40" x 40" (and other) Four-Point Footprints, 24", 15" or 8" Industry Standard Bolt Pattern
Tallboy Plate Payload Interfaces	40" x 64" (and other) Four-Point Footprints, 31.6" or 38.81" Industry Standard Bolt Patter
Separation Signals	Four (4) for four-points (redundant), One (1) for separation rings (redundant)
Heater power	One (1) 40 W (redundant)
Breakwire	One (1) (redundant)

price on request

Contact Impulse Space

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/impulse-space/>

<https://www.impulspace.com>

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