

NEWSPACE MARKET · COMPANY PROFILE



ENPULSION GmbH

Austria · founded 2016 · enpulsion.com

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WITH DATASHEETS

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as of 26 August 2026



ENPULSION GmbH

ENPULSION was founded in 2016 in Wiener Neustadt, Austria, building on more than 30 years of Field Emission Electric Propulsion (FEEP) research conducted in cooperation with the European Space Agency (ESA) and the Austrian research institute FOTEC. The company specializes in compact electric propulsion systems for nanosatellites and microsatellites, using indium as a solid, room-temperature propellant that eliminates the handling and safety complexity of pressurized or toxic propellants used by many competing thruster technologies. The company's core product lines are the ENPULSION NANO (formerly IFM Nano Thruster) and ENPULSION MICRO thruster families, offering thrust levels from tens of micronewtons up to the millinewton range with specific impulse up to 6,000 seconds. Each thruster is a fully self-contained unit integrating the propellant tank, thruster head, neutralizer, and power electronics, simplifying integration for small satellite operators performing orbit raising, station-keeping, deorbiting, and constellation phasing maneuvers. As of the mid-2020s, ENPULSION has shipped more than 200 propulsion systems that have flown or are flying on orbit, serving commercial constellation operators, government missions, and research satellites worldwide. The company continues to expand its product range toward higher-thrust variants to support larger microsatellite platforms.

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

Acceptance Testing

Enpulsion conducts acceptance testing on every unit to ensure it meets or exceeds the highest performance and reliability standards.

Batch Testing

Enpulsion performs batch testing to assess the quality of their propulsion solutions at every level, ensuring reliable performance.

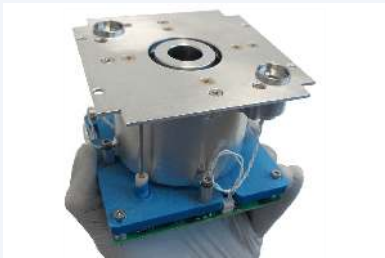
drawings, sketches, samples, calculations or simulations

Enpulsion performs various preliminary design and analysis work, including drawings, sketches, samples, calculations, or simulations for customers.

Material Inspection

Enpulsion verifies the quality of every component used in their designs to ensure reliability and performance.

Product catalogue



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
Propellant mass	220 g (±5%)
Propellant type	Solid indium (FEEP)

price on request [datasheet](#)



ENPULSION GMBH

IFM Nano Thruster for CubeSats

With its IFM Nano Thruster ENPULSION was the first company to offer an operational FEEP-based propulsion solution, which was developed under ESA contracts for 15 years. Due to the...

Manufacturer	ENPULSION
Lead time	16 weeks

€38 400



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
Outside Dimensions (Excluding protrusions)	140 x 120 x 126.5 mm
Outside Dimensions (Including protrusions)	140 x 120 x 131.5 mm

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

Contact ENPULSION GmbH

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/enpulsion/>

<https://www.enpulsion.com>

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