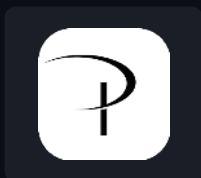


NEWSPACE MARKET · COMPANY PROFILE



Perigee Aerospace

South Korea · founded 2018 · perigee.space

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PRODUCTS

newspacemarket.com/companies/perigee-aerospace/

as of 20 August 2026



Perigee Aerospace

Perigee Aerospace is a South Korean end-to-end space mobility company founded in 2018 by Yoon Shin, developing high-performance small launch vehicles and propulsion systems to provide sustainable, reliable, and efficient access to Earth orbit. The company operates from its Rocket Development Complex in Okcheon-gun (Chungcheongbuk-do), a Rocket Research Center with vertical engine test stands, a Future Tech Lab for satellite propulsion and electronics, and its headquarters in Daejeon, South Korea. Perigee's flagship product is the Blue Whale family of liquid methane (LOX/LNG) rockets. Blue Whale 0.1, an educational sounding rocket, launched from Jeju in December 2021 and became South Korea's first civilian liquid-propellant rocket. Blue Whale 0.4 is a suborbital research vehicle for microgravity payloads and technology demonstrations, and Blue Whale 1 is the company's two-stage orbital launch vehicle, capable of delivering up to 200 kg to a 500 km sun-synchronous orbit using nine turbopump-fed BLUE 1S main-stage engines and a single pressure-fed SKYBLUE upper-stage engine. The company has developed five engine lineups in-house, accumulated over 5,000 seconds of total engine burn time, and secured 10+ R&D awards and contracts along with agreements to launch Blue Whale 1 from Esrange Space Center (Sweden) and Whalers Way (Australia), including a collaboration with the Swedish Space Corporation (SSC).

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.

Product catalogue



PERIGEE AEROSPACE

BLUE 1S

Turbopump-fed LOX/LNG main engine used in the Blue Whale 1 first stage.

Propellant	LOX/LNG (liquid methane)
Engine cycle	Gas generator (open cycle)
Feed system	Turbopump-fed
Sea-level thrust	34 kN
Vacuum thrust	38 kN
Sea-level Isp	324 s
Vacuum Isp	362 s

price on request



PERIGEE AEROSPACE

Blue Whale 0.1

Educational sounding rocket - South Korea's first civilian liquid-propellant rocket.

Vehicle type	Educational sounding rocket
Height	3.2 m
Diameter	190 mm
Launch mass	52 kg
Propulsion	Pressure-fed LOX/Ethanol
Thrust (vacuum)	1.76 kN
First flight	December 2021, Jeju, South Korea

price on request



PERIGEE AEROSPACE

Blue Whale 0.4

Suborbital research vehicle for microgravity payloads and technology demonstrations.

Vehicle type	Suborbital research vehicle
Height	7.5 m
Diameter	760 mm
Launch mass	800 kg
Payload capacity	20 kg to suborbital trajectory
Propulsion	Pressure-fed Skyblue engines, LOX/LNG
Thrust (vacuum)	12 kN

price on request



PERIGEE AEROSPACE

Blue Whale 1

Two-stage orbital launch vehicle delivering up to 200 kg to 500 km SSO.

Vehicle type	Two-stage orbital launch vehicle
Height	21 m
Diameter	1,600 mm
Launch mass	19,800 kg
Payload capacity	Up to 200 kg to 500 km SSO
Main stage propulsion	9 x BLUE 1S engines, LOX/LNG, turbopump-fed
Main stage Isp	326-362 s

price on request



PERIGEE AEROSPACE
CFRP Engineering

Perigee Aerospace offers lightweight and durable carbon composite structures, from materials and design to production, enabling higher payloads and lower thermal loss for launch ve

Diameter Standard 1	0.76 m
Diameter Standard 2	1.6 m
Diameter Customizable	0.3 to 2.0 m
Length Standard 1	1.8 m
Length Standard 2	1.8 m
Length Customizable	0.8 to 2.6 m
Dry Mass Standard 1	36 kg

price on request



PERIGEE AEROSPACE
CUBESAT THRUSTER

The CubeSat Thruster is a compact and capable cold gas propulsion system designed for CubeSats, offering excellent storage density, low leakage, and safe handling with refrigerant-

Parameters	0.8U
Parameters	2U
Propellant	R236fa
Propellant	R236fa
Thrust, maximum	200 mN
Thrust, maximum	450 mN
Specific impulse, vac	41 s

price on request

Contact Perigee Aerospace

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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