

NEWSPACE MARKET · COMPANY PROFILE



Pangea Aerospace

Spain · founded 2018 · pangeapropulsion.com

7

PRODUCTS

newspacemarket.com/companies/pangea-aerospace/

as of 20 August 2026

A large, faint, stylized circular graphic in the background, consisting of a central circle surrounded by two concentric arcs, resembling a stylized eye or a target.

Pangea Aerospace

European propulsion specialist building aerospike, in-space and staged-combustion rocket engines, including the world's first methalox aerospike engine.

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.

PRODUCTS

Product catalogue



PANGEA AEROSPACE

Arcos

Pangea's flagship methalox aerospike engine platform (second stage: 750 kN) -- the world's first tested LOX/methane aerospike, offering altitude-compensating efficiency for launch

Propellants	LOX / Methane (methalox)
Thrust (second stage)	750 kN
Cycle	Gas generator (open cycle)
Nozzle	Aerospike -- altitude-compensating, efficient from sea level to vacuum
Combustion chamber	Modular, deep-throttleable, bi-material additively manufactured
Interface	Adjustable interface ring for multi-stage/vehicle integration
Applications	First stage, second stage, boosters, launcher re-entry/reuse

price on request



PANGEA AEROSPACE

AURORA-1 Aerospike Engine

AURORA-1 is a liquid-fuelled rocket engine with an aerospike nozzle developed by Pangea Aerospace of Spain. The aerospike design maintains high efficiency across a wide range of al

price on request



PANGEA AEROSPACE

Cryox

30 kN LOX/methane kick-stage engine with an electric-pump feed cycle, deep throttling (100% to 10%) and multiple restart capability for orbital insertion and precision docking.

Propellants	LOX / Methane (methalox)
Thrust	30 kN
Cycle	Advanced electric-pump (e-pump) cycle
Throttle range	100% down to 10%
Restart capability	Multiple restarts, reignitable
Class	Kick stage / in-space engine
Applications	Upper stages of small/medium launch vehicles, orbital insertion, constellation deployment,

price on request



PANGEA AEROSPACE

Kronos

Full-flow staged combustion methalox engine in development, intended to be Europe's first FFSC engine and the most powerful ever conceived on the continent, built for heavy and sup

Propellants	LOX / Methane (methalox)
Cycle	Full-Flow Staged Combustion (FFSC)
Thrust	In development; ESA study targets over 2,000 kN (2 MN)
Thrust class	Over 100 tons (approx. 1,000 kN) for heavy-lift/deep-space missions
Manufacturing	Bi-material additive manufacturing
Status	In development
Applications	Heavy and super-heavy European/international launch vehicles, reusable orbital transport s

price on request



PANGEA AEROSPACE
Nereus 20 B

Bipropellant in-space thruster (20 N) balancing efficiency and versatility with green, storable propellants, capable of operating in monopropellant mode.

Propellant type	Bipropellant (also operable in monopropellant mode)
Propellants	H2O2 / Jet A
Thrust	20 N
Manufacturing process	LPBF-qualified additive manufacturing, millimetric tolerances
Compliance	REACH compliant, ITAR-free
Applications	Orbital transfer vehicles and space tugs, landing modules, satellite maneuvering

price on request



PANGEA AEROSPACE
Nereus 20 M

Monopropellant in-space thruster (5-22 N) running on green, storable hydrogen peroxide (H2O2) for satellite station-keeping, attitude control and controlled deorbiting.

Propellant type	Monopropellant
Propellant	H2O2 (hydrogen peroxide)
Thrust	5-22 N
Manufacturing process	LPBF additive manufacturing, millimetric tolerances
Compliance	REACH compliant, ITAR-free
Applications	Station-keeping, orbit adjustment, attitude and reaction control, controlled deorbiting

price on request



PANGEA AEROSPACE
Nereus 200

Higher-thrust extension of the Nereus in-space bipropellant family (100-240 N), aimed at orbital transfer vehicles, lunar landers and high-velocity defense platforms. Coming soon.

Propellant type	Bipropellant
Propellants	H2O2 / Jet A
Thrust	100-240 N
Status	Coming soon
Compliance	REACH compliant, ITAR-free
Applications	Orbital transfer vehicles and space tugs, landing modules, space service and mobility plat

price on request

Contact Pangea 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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<https://www.pangeapropulsion.com>

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