

NEWSPACE MARKET · COMPANY PROFILE



L.Garde Inc

founded 1971 · lgarde.com

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PRODUCTS

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SERVICES

newspacemarket.com/companies/l-garde/

as of 20 August 2026

A large, faint, stylized circular graphic is positioned on the right side of the page. It consists of a central dark circle surrounded by two concentric, broken circular arcs, creating a target-like or orbital appearance.

L.Garde Inc

L.Garde designs, develops, manufactures, and provides qual testing for inflatable and deployable structures for both terrestrial and space applications. The company offers advanced concepts, space propulsion systems including solar sails with a "stripe net" architecture, and deployable space structures that enable advanced observation capabilities. They also provide simulation and modeling services, particularly for light-weight structures. L.Garde serves customers as a supplier to Tier 1 companies and provides research and development (R&D) services. The company has a heritage of 50 years and has flown more than 150 objects in space. They are dedicated to the defense of the United States of America.

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

Conceptual Design Development L.Garde assists customers in developing conceptual level designs from initial requirements and program goals.	Environmental and Qualification Testing L.Garde conducts various environmental and qualification tests, including vacuum deployment, signature, and photogrammetry tests, under AS9100 standards.
Full Program Support (Concept to Integration) L.Garde offers end-to-end support for customer programs, from initial concept development to final integration and delivery.	Simulation and Modeling L.Garde offers analytical capabilities for modeling lightweight deployable structures, especially for large displacement scenarios.
Test and Integration L.Garde provides sophisticated test and integration tools to ensure the highest quality product possible for customers.	

Product catalogue



L.GARDE INC

Deployable Space Structures (General)

L.Garde develops and tests deployable space structures, including large radar arrays and lightweight trusses with high compaction ratios, enabling advanced observation capabilities

ISAT array length	300 meters
Fairing compatibility	Delta IV
Deployment mechanism	Concentrated strain hinges (high compaction ratio)
Target platforms	ESPA-class satellites

price on request



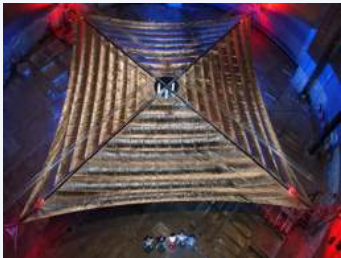
L.GARDE INC

L.Garde Deployable Antennas

L.Garde Deployable Antennas are high-packaging-efficiency structures designed for space applications, capable of deploying large apertures from small volumes.

Flight Heritage	STS-77 (Inflatable Antenna Experiment - IAE)
IAE Dish Diameter	14 meters
IAE Strut Length	33 meters

price on request



L.GARDE INC

L.Garde Solar Sails

L.Garde solar sails utilize a unique “stripe net” architecture for space propulsion, offering capabilities like debris removal, satellite de-orbiting, and deep space travel.

Ground-deployed sail sizes	83 sq m and 318 sq m
Sunjammer solar sail	1200 sq m total (300 sq m quadrant deployed)
Deployment mechanism	4 independently-controlled sub-Tg conically-deployed composite booms
Applications	Debris removal, de-orbiting, pseudo-Lagrange points, pole-sitter satellites, deep-space pr

price on request

Contact L.Garde Inc

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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