

NEWSPACE MARKET · COMPANY PROFILE

MOOG

Moog Space Defense Group

United States · founded 1951 · moog.com

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WITH DATASHEETS

newspacemarket.com/companies/moog-space-defense-group/

as of 20 August 2026



Moog Space Defense Group

Moog Inc. is a precision motion control company founded in 1951 and headquartered in East Aurora, New York. The company designs and manufactures high-performance motion control products and systems used across space, defense, medical, and industrial markets. Moog's Space and Defense Group provides critical propulsion, actuation, and fluid control components to some of the world's most demanding space programs. Its products include thruster valves, pressure regulators, propellant management systems, and attitude control components used on satellites, launch vehicles, and deep-space probes. The company has supplied components to hundreds of commercial and government satellites and has a long heritage in reaction control systems for spacecraft. Moog's space propulsion components have flown on NASA missions, commercial GEO satellites, and national security space platforms. With manufacturing facilities across the United States and internationally, Moog employs approximately 13,000 people and serves customers including prime contractors, government agencies, and commercial satellite operators.

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

Radar Application Identification and Integration

Moog helps customers identify the best radar application for their needs and integrates it with their MADS or other operating systems.

Product catalogue



MOOG SPACE DEFENSE GROUP

METEORITE Satellite Bus

METEORITE is Moog’s purpose-built small satellite bus targeting ESPA rideshare and dedicated launches into LEO, MEO, and GEO orbits. The platform carries up to 220 kg payload

Orbital range	500–1200 km LEO, MEO, GEO (ESPA class)
Mission life	2–5 years
Bus dry mass	120 kg
Payload mass capacity	220 kg
Dimensions	22 × 28 × 23.65 inches
Delta-V	>175 m/s at 200 kg dry
Payload power (average)	~150 W

price on request



MOOG SPACE DEFENSE GROUP

MONARC Monopropellant Thrusters

Moog's MONARC hydrazine monopropellant thruster family covering 1 N to 445 N thrust across six model series, with over 3,000 units delivered to commercial and government satellite

MONARC-1	Thrust 0.9–1 N; Isp 227–235 s; Mass 0.38 kg
MONARC-5	Thrust 4.5–5 N; Isp 226–230 s; Mass 0.49 kg
MONARC-22-6	Thrust 22 N; Isp 228–229.5 s; Mass 0.72 kg; 6-in nozzle
MONARC-22-12 LT/HT	Thrust 22 N; Isp 227–232 s; Mass 0.69 kg; 12-in nozzle
MONARC-90 LT	Thrust 22–90 N; Isp 232 s; Mass 1.12 kg; low-temperature catalyst
MONARC-90 HT	Thrust 93–116 N; Isp 232–234 s; Mass 1.12 kg; high-temperature catalyst
MONARC-445	Thrust 111–445 N; Isp 234–235 s; Mass 1.6 kg

price on request

[datasheet](#)



MOOG SPACE DEFENSE GROUP
SL-OMV (Small Launch Orbital Maneuvering Vehicle)

Moog's 70 kg orbital maneuvering vehicle for rideshare last-mile delivery: deploys up to six 12 kg payloads or CubeSats in precise orbits with up to 200 m/s delta-V capability.

Orbital range	400–700 km
Mission life	<1 year (propellant-limited)
Bus dry mass	70 kg
Bus volume	40-inch diameter × 25-inch tall; 24-inch LV interface
Payload slots	6× containerized 12 kg payloads
CubeSat compatibility	6× 6U or 6× 12U CubeSats
Delta-V	up to 200 m/s

price on request



MOOG SPACE DEFENSE GROUP
Space Mechanisms (SADA, Gimbals, Rotary Actuators)

Moog's space mechanisms portfolio: Solar Array Drive Assemblies with 40+ years heritage, dual-axis thruster gimbals for EP systems, zero-backlash rotary actuators, and biaxial poin

SADA — Type 3/5	Single-axis solar array drive; 40+ year heritage
SADA — Small Satellite SADE	0.8 kg; 22–34 VDC; RS-422; 88.9×101.6×48.3 mm; 50 kRad TID
Thruster Gimbal (Model T)	Dual-axis EP thruster pointing; GEO orbit-raise and station-keeping
Type 55 Biaxial Gimbal	Dual-axis antenna/instrument pointing; output bearings carry structural loads
Rotary Actuator Type 3	38,400 steps/rev; 160:1 harmonic drive; 350 lb-in output torque; 4.2 lb; 14 W
Micro-3 Rotary Actuator	Ultra-compact; zero backlash; permanent magnet stepper
Optical Filter Wheel	Heritage: Hubble WF/PC, Cassini, Hayabusa I/II; up to 48 filter positions

price on request

Contact Moog Space Defense Group

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.moog.com>

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