



Nimesis Technology

founded 2008 · nimesis.com

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PRODUCTS

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SERVICES

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as of 20 August 2026



Nimesis Technology

Nimesis Technology designs, develops, and manufactures actuators, mechanisms, and specific devices utilizing shape memory alloys. Their product lines include space actuators such as Triggy, Gripper, Satlatch, Hector (a rotary actuator with 90 to 180° angular amplitude for controlled rotation and high torque), Murphy, Harper (an ultra-flat and fast HDRA type actuator for releasing a fixing rod by jaw separation), Lara, Stepper, and Jack. These actuators are used for locking/unlocking, deploying/releasing antennas or solar panels, and dismantling rocket stages, including those for satellites, rovers, and launchers. The company aims to be a partner for European satellite and launcher manufacturers and their equipment suppliers. Nimesis Technology was founded in 2008 and has 17 employees. They have 14 years of experience and hold 6 patents. The company operates within the European and global space ecosystem, also serving the defense and aeronautics sectors, and other industries like medical, nuclear, and watchmaking with intelligent devices such as thermal safety systems and precision tools. They have over 900 square meters dedicated to innovation.

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

Assemblage, Intégration et Test (MAIT) en salle blanche

The company provides Manufacturing, Assembling, Integration, and Test (MAIT) services in an ISO5 cleanroom, ensuring controlled conditions for sensitive components.

Contrôle géométrique automatique

Nimesis Technology provides automatic geometric control services using profile projection, offering high precision for batches of 1 to 100 parts.

Essais de grade spatial (Banc TVAC)

Nimesis Technology offers space-grade testing services using a TVAC chamber with integrated thermal regulation, suitable for aeronautical and space applications.

Essais mécaniques (traction / compression)

Nimesis Technology offers mechanical testing services, including traction and compression, with a climatic chamber for temperature-controlled environments.

Mesure de calorimétrie par balayage

Nimesis Technology offers calorimetry measurements by scanning, capable of operating from -90°C to 300°C for various material characterizations.

Product catalogue



NIMESIS TECHNOLOGY	
GRIPPER — SMA Hold-Down Release Actuator	
Ultra-thin HDRA-type SMA actuator for gradual, shock-free release of threaded fasteners with up to 1500 N preload — TRL 9 with flight heritage on rover missions.	
Technology	Shape memory alloy (SMA) HDRA actuator
TRL	9 (flight heritage)
Max preload	1500 N
Release	Gradual, shock-free (jaw-spreading mechanism)
Platforms	Satellites, launchers, rovers
Notable mission	Phobos and Deimos rover mission

flight proven · TRL 9 price on request



NIMESIS TECHNOLOGY	
HARPER — Ultra-Flat SMA Locking Actuator for Launchers	
Ultra-flat HDRA-type shape memory alloy locking/unlocking actuator optimized for launcher stage and cap separation — compact jaw-release mechanism, TRL 5.	
Technology	Shape memory alloy (SMA) HDRA-type actuator
TRL	5
Mechanism	Jaw separation release
Form factor	Ultra-flat
Applications	Launchers – stage separation, fairing/cap release

TRL 5 price on request



NIMESIS TECHNOLOGY	
HECTOR — SMA Rotary Actuator for Structural Deployment	
Large-angle (90-180 deg) SMA rotary actuator for deploying booms, panels, and articulated structures on satellites and rovers — shock-free, high torque. TRL 7.	
Technology	Shape memory alloy (SMA) rotary actuator
TRL	7
Angular range	90-180 degrees
Actuation	Electrically triggered, shock-free
Applications	Satellite and rover boom deployment, solar panel hinges, antennas

TRL 7 price on request



NIMESIS TECHNOLOGY	
JACK — SMA Pin-Puller Actuator for Satellites and Rovers	
Compact shape memory alloy pin-puller for satellite and rover deployment — 10 mm stroke, 30 N pulling force, operable from -120°C to +120°C, user-resettable. TRL 3.	
Technology	Shape memory alloy (SMA) pin-puller
TRL	3
Stroke	10 mm
Pulling force	30 N
Shear force resistance	> 50 N
Temperature range	-120°C to +120°C
Activation time	A few seconds

TRL 3 price on request



NIMESIS TECHNOLOGY

LARA — SMA Release Nut for Launch Vehicle Stage Separation

High-load SMA hold-and-release nut for mini/micro launcher stage and cap separation — handles up to 45 kN structural load, actuates in <100 ms, synchronized across multiple unit

Technology	Shape memory alloy (SMA) release nut
TRL	4
Maximum load	45 kN
Actuation time	< 100 ms
Multi-unit synchronization	< 30 ms dispersion
Temperature range	-120°C to +70°C
Shock emissions	100 Hz/50g; 1,000 Hz/300g; 10,000 Hz/1,000g

TRL 4 price on request



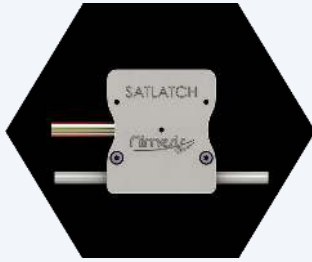
NIMESIS TECHNOLOGY

MURPHY — Re-entry Triggered Dismantling Fastener

SMA breakable fastener for spacecraft dismantling triggered by atmospheric re-entry heating — enables controlled structural disintegration at a pre-set altitude, TRL 7.

Technology	Shape memory alloy (SMA) fastener with re-entry thermal activation
TRL	7
Activation trigger	Atmospheric re-entry heating (no electrical command required)
Configurable	Activation temperature tunable to target re-entry altitude
Optional sensor	Integrated temperature sensor for re-entry data logging
Platforms	Satellites, launchers
Purpose	End-of-life spacecraft dismantling / controlled demise

TRL 7 price on request



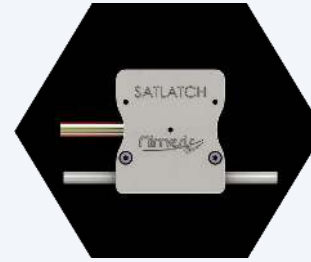
NIMESIS TECHNOLOGY

SATLATCH — Rotary Deployment and Latching Mechanism

Compact SMA rotary deployment and latching mechanism for satellites — progressive shock-free deployment in 4–100 seconds, auto-resettable, operates -120°C to +120°C, vibration-qual

Technology	CuAlNi shape memory alloy rotary mechanism
TRL	8
Mass	< 60 g
Dimensions	40 mm wide × 8.6 mm thick
Deployment torque	0.1 N·m
Locking torque	0.2 N·m
Temperature range	-120°C to +120°C

TRL 8 price on request



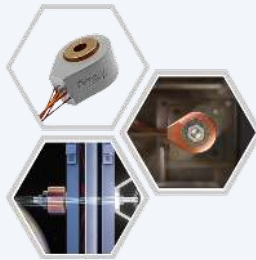
NIMESIS TECHNOLOGY

SATLATCH — Shock-Free Deployment and Latching Mechanism

High-performance SMA-based deployment and latching mechanism for space structures and payloads — operates from -120°C to +120°C with zero shock, TRL 8.

Technology	Shape memory alloy (SMA) deployment and latching mechanism
TRL	8
Operating temperature	-120°C to +120°C
Shock	Zero shock on deployment
Platforms	Satellites, rovers
Applications	Solar panels, antennas, payloads, deployable structures

TRL 8 price on request



NIMESIS TECHNOLOGY

TRIGGY — Shape Memory Alloy Breakable Fastener

Space-qualified shape memory alloy (SMA) breakable fastener for deploying, locking/unlocking, releasing, or dismantling spacecraft mechanisms — TRL 9 with flight heritage, available

Technology	Shape memory alloy (SMA) actuator
TRL	9 (flight heritage)
Applications	Locking/unlocking, deployment, release, dismantling
Platforms	Satellites, launchers, rovers, CubeSats
Size range	M2 to M12
Qualification	ECSS-compliant, ISO 9001
Key features	Compact, dust-resistant, high load/preload capacity, no pyrotechnics

flight proven • TRL 9 price on request

Contact Nimesis Technology

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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