

NEWSPACE MARKET · SECTOR CATALOGUE

Deployers & Separation Systems

Every unit we list in this sector — specifications, manufacturers and where to ask for a quote. Compiled from the live NewSpace Market catalogue.

161

PRODUCTS

41

MANUFACTURERS

12

COUNTRIES

55

WITH DATASHEETS

newspacemarket.com/catalogues/deployers-separation/

as of 15 August 2026

What is inside

This catalogue lists **161 deployers & separation systems products** offered by **41 manufacturers** across **12 countries**. Of those, 55 carry a manufacturer datasheet and 20 publish a price; the rest are quoted on request — normal in this market, where configuration drives cost.

Entries are grouped alphabetically by manufacturer. Every product links back to its page on [newspacemarket.com](#), where you will find the full specification, the datasheet and a quote form that reaches the manufacturer directly.

Compiled 15 August 2026 from the live catalogue. Specifications are as published by the manufacturers; we normalise units but do not re-measure. Where a figure looked implausible it was left out rather than guessed.

Manufacturers by country

United States 14	Germany 4	Italy 3	United Kingdom 3	Russia 3	Netherlands 3	Spain 2
South Korea 2	Czech Republic 2	India 1	Canada 1	Switzerland 1		

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
1p VibePOD	Wyrn Engineering	Netherlands	Flight Heritage: FOSSA 1P for Rocketlab "Running out of fingers" mission in...	on request
6U MyPOD2	Gran Systems	United States	Temperature range: -50°C to +100°C	on request
Adaptive Launch Solutions	Adaptive Launch Solutions	United States	Configurations: 5 variants (Types 1G, 1E, 1M, 1S, 1C)	on request
Advanced Lightband (ALB)	Planetary Systems Corp (Rocket Lab)	United States	Bolt circle diameters available: 8.000", 11.732", 13.000", 15.000", 18.250"...	on request
AlbaPod Deployer	Alba Orbital	United Kingdom	–	on request
ASTROFEIN PicoSatellite Launcher PSL1U / PSL2U / PSL3U	EXA (Astro-und Feinwerktechnik)	Germany	CubeSat Rail Length (Z) [mm]: 113.5 (PSL1U), 227.0 (PSL2U), 340.5 (PSL3U)	on request
ATLAS Hold Down and Release Actuator	SPACERACE s.r.o.	Czech Republic	Mechanical interface: User customizable (to match NEA, Glenair, Eaton, Arqu...	on request
Beyond Gravity Separation Systems	RUAG Space	Switzerland	Flight record: More than 1200 in-orbit separations	on request
Canisterized Satellite Dispenser (CSD)	Planetary Systems Corp (Rocket Lab)	United States	Sizes available: 3U, 6U, 12U	on request
CarboNIX	Exolaunch	Germany	Satellite mass range: 10–500 kg	on request
CarboNIX NEO	Exolaunch	Germany	Available sizes: 8", 15", 24", 31.6", 38.81" (custom)	on request
CAVE Deployer	TRL Space	Czech Republic	Deploy CubeSats Sizes: 6–16 U	from €44 990 U
Claymore 6P PocketQube Deployer	Wyrn Engineering	Netherlands	Capacity: Up to 6P PocketQube	on request
CubeSat Deployment System (TPK)	Orbital Systems	Russia	Supported Form Factors: 1U, 1.5U, 2U, 3U, 6U, 8U, 12U, 16U	on request
CubeSat Dispensers	Tyvak International S.r.l.	Italy	–	on request
Dedicated NLV Payload Stack	Maverick Space Systems	United States	Application: Dedicated missions on small launch vehicles	on request
Deep Space Deployer	ISISPACE Group	Netherlands	Compatible Satellite Size: 6UXL	on request
Deep Space Deployer (DSD)	Innovative Space Logistics	Netherlands	–	on request
Deployer EXT 16U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 600 × 290 × 299 mm	₽6 000 000
Deployer SERIES 12U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 480 × 290 × 299 mm	₽5 000 000

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Deployer SERIES 16U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 600 × 290 × 299 mm	₽6 000 000
Deployer SERIES 2x3U/1x6U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 480 × 290 × 299 mm	₽6 000 000
Deployer SERIES 2x6U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 480 × 290 × 299 mm	₽5 500 000
Deployer SERIES 4x3U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 480 × 290 × 299 mm	₽6 000 000
Deployers 12U LIGHT	KOSMOLAB Launch Services	Russia	Mass: 6 kg	₽5 000 000
Deployers 16U LIGHT	KOSMOLAB Launch Services	Russia	Mass: 6 kg	₽5 000 000
Deployers 3U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 557 × 158 × 187 mm	₽3 500 000
Deployers 4U	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 557 × 158 × 187 mm	₽3 500 000
Deployment Sequencer BU-12	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 300 × 235 × 145 mm	₽1 500 000
Deployment Sequencer BU-24	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 300 × 235 × 145 mm	₽1 750 000
Deployment Sequencer BU-36	KOSMOLAB Launch Services	Russia	Dimensions (L×W×H): 300 × 235 × 145 mm	₽2 000 000
Deployment System 100 kg	KOSMOLAB Launch Services	Russia	Mass: 8.0 kg	₽7 500 000
Deployment System 200 kg	KOSMOLAB Launch Services	Russia	Mass: 13.5 kg	₽9 500 000
Deployment System 50 kg	KOSMOLAB Launch Services	Russia	Mass: 4.0 kg	₽6 000 000
Deployment System 500 kg	KOSMOLAB Launch Services	Russia	Mass: 17 kg	₽12 000 000
Dhruva LEAP Deployer	Dhruva Space	India	—	on request
DS – POD	DALRO Aerospace	South Korea	Model Availability: 1U / 3U / 6U / 16U Model Available	on request
DSOD Satellite Orbital Deployer Series	Dhruva Space	India	Configurations: 1U, 3U, 6U, 12U, 16U CubeSat	on request
DuoPack Deployer	ISISPACE Group	Netherlands	Type XL configurations: 1XL (1x 6UXL satellite), 2XL (2x 3UXL satellite)	on request
EBAD TiNi Microlatch ML50-1 Separation System	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Max Release Load: 50 lbf (222 N)	on request
EBAD TiNi Microlatch ML50-2 Separation System	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Max Release Load: 50 lbf (222 N)	on request
EBAD TiNi™ ejector	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Attaching screw thread size: 4-40 to 3/8"-24	on request
EBAD TiNi™ Pin Puller	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pin Puller pull force range: 5 to 1000 lbf	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Equalizer Flex	SEOPS	United States	–	on request
ESPA Separation System (PSR 1575 mm / 62 in)	RUAG Space	Switzerland	Interface diameter: 1575 mm (62 in)	on request
EXOpod AIR	Exolaunch	Germany	Minimum deployer mass: 6.5 kg (lightest CubeSat deployer on market)	on request
EXOpod Nova	Exolaunch	Germany	Available sizes: 6U/8U, 12U, 16U (configurable to smaller)	on request
FANTM-RAiL	Xtenti	United States	Maximum payload mass: 60 kg	on request
FANTM-RAiL Deployer	Xtenti	United States	Payload capacity: Up to 60 kg	on request
FANTM-RiDE	Xtenti	United States	Capability: Containerized rideshare payload dispensing	on request
FANTM-RiDE Dispenser	Xtenti	United States	Interface: Static mechanical, electrical and dynamic-response launch interface	on request
Fast-Acting Shockless Separation Nut (FASSN) 30K	Sierra Space	United States	Load Rating: 5K	on request
FuseBlox Small Satellite Docking Mechanism	SpaceWorks Enterprises	United States	Form factor: 2U	on request
Ghost Trap Deployer	SEOPS	United States	–	on request
GPOD CubeSat Deployer	GAUSS Srl	Italy	Mass: 1.9 kg	on request
GRIPPER — SMA Hold-Down Release Actuator	Nimesis Technology	–	Technology: Shape memory alloy (SMA) HDRA actuator	on request
HARPER — Ultra-Flat SMA Locking Actuator for Launchers	Nimesis Technology	–	Technology: Shape memory alloy (SMA) HDRA-type actuator	on request
Hyperion PocketQube Deployer	Quub (Mini-Cubes)	Canada	Compatible formats: 1P through 6P PocketQube	on request
ISIPOD	Innovative Space Logistics	Netherlands	Supported CubeSat sizes: 1U, 2U, 3U (and combinations)	on request
JACK — SMA Pin-Puller Actuator for Satellites and Rovers	Nimesis Technology	–	Technology: Shape memory alloy (SMA) pin-puller	on request
Keystone	SEOPS	United States	Actuation: Glenair 061-006 HDRM	on request
KSD CubeSat Deployers	Kairo Space	South Korea	Compatible Payloads: 1U, 2U, 3U, 6U CubeSat	on request
LARA — SMA Release Nut for Launch Vehicle Stage Separation	Nimesis Technology	–	Technology: Shape memory alloy (SMA) release nut	on request
LoFF Low-Shock Separation System	Redwire Corporation	United States	Type: Low-shock frangible separation system	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Manual Deployer of Pico and Nanosatellites	Glavkosmos	Russia	Purpose: Launch of pico-and/or nanosatellites by astronaut from ISS at ext...	on request
Mark II Motorized Lightband (MLB)	Planetary Systems Corp (Rocket Lab)	United States	Bolt circle diameters available: 8.000", 11.732", 13.000", 15.000", 18.250"...	on request
Maverick 4-Point Lightweight Separation System (M4P-L)	Maverick Space Systems	United States	Type: 4-point separation system	on request
Maverick 4-Point Medium-duty Separation System (M4P-M)	Maverick Space Systems	United States	Type: 4-point separation system	on request
Maverick NLAS Ruggedized 6U Dispenser	Maverick Space Systems	United States	Form factor: 6U, or 2x 3U CubeSats	on request
Mercury-12 Lightweight 12U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 12U	on request
Mercury-12T Tab-Based 12U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 12U	on request
Mercury-16 16U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 16U	on request
Mercury-3 Lightweight 3U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 3U	on request
Mercury-6 Lightweight 6U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 6U	on request
Mercury-6T Tab-Based 6U CubeSat Dispenser	Maverick Space Systems	United States	Form factor: 6U	on request
Micro Pin Puller (uD3PP)	Dcubed	Germany	Field-Resettable: Front and Rear, in Seconds, up to 100 times	on request
Micro Release Nut (uD3RN)	Dcubed	Germany	TRL: 9	on request
Microsatellite Separation System (M3S)	ISISPACE Group	Netherlands	Maximum Satellite Mass: 120 kg	on request
Modular Deployment Sequencer	ISISPACE Group	Netherlands	Mass: ~1 kg (4 deployers, external power) to ~2 kg (8 deployers, internal p...	on request
Modular Deployment Sequencer (MDS)	Innovative Space Logistics	Netherlands	–	on request
Modular Payload Adapter Systems	RUAG Space	Switzerland	Materials: Aluminium or carbon fibre composites	on request
MR-FOD Deployer	Tetonsys	United States	Type: PocketQube deployer	on request
MURPHY — Re-entry Triggered Dismantling Fastener	Nimesis Technology	–	Technology: Shape memory alloy (SMA) fastener with re-entry thermal activation	on request
Nano Pin Puller (nD3PP)	Dcubed	Germany	TRL: 9	on request
Nano Release Nut (nD3RN)	Dcubed	Germany	TRL: 9	on request
Nanosat Express Deployment Service	SpaceWorks Enterprises	United States	Size range: 1U to 27U CubeSats	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
NEA Model 9040 Miniature Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 300 lbf (1,300 N)	on request
NEA Model 9100 Hold Down & Release Mechanism	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 1,700 lbf (7,600 N)	on request
NEA Model 9106B Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 40,000 lbf (178,000 N)	on request
NEA PRM 9103A Payload Release Module	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Axial Preload: Up to 15,000 lbf	on request
NEA PRM 9104A Payload Release Module	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Axial Preload: Up to 8,500 lbf	on request
NEA® 15" Payload Release Ring (PRR-15)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Payload Capability: 250 kg	on request
NEA® 24" Payload Release Ring (PRR-24)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Payload Capability: 500 kg	on request
NEA® 8" Payload Release Ring (PRR-8)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Payload Capability: 100 kg	on request
NEA® Model 2545 Pin Puller	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force at End of Stroke: 25 lbf (111 N)	on request
NEA® Model 9102G Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 5,000 lbf (22,200 N)	on request
NEA® Model 9103 Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 9,217 lbf (41,000 N)	on request
NEA® Model 9107 Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 58,500 lbf (260,000 N)	on request
NEA® Model 9108 Hold Down & Release Mechanism (HDRM)	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Proof Load Rating: 86,400 lbf (384,000 N)	on request
NEA® Payload Release Module PRM 9103A	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Axial Preload: Up to 15,000 lbf	on request
NEA® Payload Release Module PRM 9104A	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Axial Preload: Up to 8,500 lbf	on request
NPSCuL (NPS CubeSat Launcher)	Naval Postgraduate School	United States	Type: Multi-CubeSat launch adapter / deployer (P-POD based)	on request
OPER CubeSat Deployer	2NDSpace Srl	Italy	Form factor: 12U/16U	on request
PAS 381S (15 in) Separation System	RUAG Space	Switzerland	Interface: ESPA 15 in adapter interface	on request
PAS 432S (17 in) Separation System	RUAG Space	Switzerland	Interface diameter: 432 mm (17 in)	on request
PAS 610S (24 in) Separation System	RUAG Space	Switzerland	Interface diameter: 610 mm (24 in)	on request
Payload Separation and Release Systems	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Products: Linear shaped charges, frangible joints, separation bolts/nuts, T...	on request
PicoSatellite Launcher PSL12U / PSL12U XL	EXA (Astro-und Feinwerktechnik)	Germany	Parameter: PSL12U	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
PicoSatellite Launcher PSL6U / PSL6U XL	EXA (Astro-und Feinwerktechnik)	Germany	Parameter: PSL6U	on request
Pin Pullers	Decubed	Germany	Size (Micro Pin Puller uD3PP): Ø28x52 mm / Ø1.1x20.27 in	on request
PocketQube Deployer	Alba Orbital	United Kingdom	Satellite Standard: PocketQube (5 cm × 5 cm × 5 cm)	on request
Pyrolock	Glavkosmos	Russia	Purpose: Spacecraft attachment to the adapter for the period of their joint...	on request
QuadPack Deployer	ISISPACE Group	Netherlands	12UXL QuadPack configurations: 1XL (1x 12UXL satellite), 2XL (2x 6UXL satel...	on request
QuadPack Deployer	Innovative Space Logistics	Netherlands	Release velocity: under 1.8 m/s	on request
Quadro Arrow	Exolaunch	Germany	Satellite mass range: Up to 250 kg	on request
Quadro Versa	Exolaunch	Germany	Satellite mass range: Up to 1000 kg (and beyond)	on request
REAC-053 V2 SX 5kN Nitinol Release Actuator	Arquimea	Spain	Release Load: 5 kN	on request
REAC-053 V2 SX 5kN SMARQ Release Actuator	Arquimea	Spain	Release Load: 5 kN	on request
REAC-153 V2 SX 15kN Nitinol Release Actuator	Arquimea	Spain	Release Load: 15 kN	on request
REAC-153 V2 SX 15kN SMARQ Release Actuator	Arquimea	Spain	Release Load: 15 kN	on request
REAC-353 V2 35kN Nitinol Release Actuator	Arquimea	Spain	Release Load: 35 kN	on request
REAC-353 V2 EX 35kN SMARQ Release Actuator	Arquimea	Spain	Release Load: 35 kN	on request
RED-25 Precision Payload Return Capsule	SpaceWorks Enterprises	United States	Payload capacity: 25 kg	on request
Redwire CubeCone Payload Adapter	Redwire Corporation	United States	Configuration: Transitional ring adapter	on request
Redwire CubeStack Payload Adapter	Redwire Corporation	United States	Configuration: ESPA-class ring adapter	on request
Redwire XPOD CubeSat Deployer	Redwire Corporation	United States	Configuration: Custom adapter hosting 3 XPOD CubeSat dispensers	on request
Release Device (electromechanical, shock-free). Type 2	Glavkosmos	Russia	Year of release: 2017	on request
Reliable and Advanced Mission Injector (RAMI)	UARX Space	Spain	Supported form factors: 0.25U, 0.5U, 1U, 1.5U, 2U, 3U, 6U, 12U	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Rideshare Payload Aggregation Platform	Maverick Space Systems	United States	Application: Rideshare missions	on request
Satellite Dispenser Systems	RUAG Space	Switzerland	Subsystems included: Structure, separation system, electrical harness, ther...	on request
Satellite Payload Release & Sequencing System (PRSS)	PacSci EMC	United States	Flight qualified: 74 One-Web Satellite Separation	on request
Satellite Separation and Deployment Systems	Clutch Space Systems	United Kingdom	Products: Spring-loaded deployment systems, SMA hold-down/release, separati...	on request
SATLATCH — Shock-Free Deployment and Latching Mechanism	Nimesis Technology	—	Technology: Shape memory alloy (SMA) deployment and latching mechanism	on request
SAU&RON	UARX Space	Spain	Total mass: Starting from < 1.4 kg	on request
Separation Device Clamp Band	Glavkosmos	Russia	Purpose: Spacecraft attachment to the adapter for the period of their joint...	on request
Separation Nut PSM 1/2B	RUAG Space	Switzerland	Target spacecraft class: Constellation class satellites, typically 500-1000 kg	on request
Separation Nut PSM 3/8B	RUAG Space	Switzerland	Target spacecraft class: OneWeb class satellites, typically 100-200 kg	on request
SlingShot	SEOPS	United States	Deployment capacity: Up to 72U of CubeSats per Cygnus mission	on request
SMPOD03-NOIR	NPC Spacemind	—	Payload firmly secured: Inside the deployer to prevent rattling during launch	on request
SMPOD16-C	NPC Spacemind	—	Robustness: Payload firmly secured inside the deployer to prevent rattling ...	on request
Solar Panels Hold-down Lock (mechanical)	Glavkosmos	Russia	Year of release: 2007	on request
Spacecraft Dispensing Systems	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Payload range: Small CubeSat to 40 metric ton primary payloads	on request
Spacecraft Separation Device	Glavkosmos	Russia	Purpose: Spacecraft attachment to the adapter for the period of their joint...	on request
SpaceTech Pyro Drive Module (Actuator Drive Unit)	SpaceTech GmbH	Germany	Bus interface: Satellite primary power, 28V nominal	on request
Systems for Separating Small, Medium, Heavy Spacecraft	Glavkosmos	Russia	Purpose: Design, manufacture and testing of spacecraft separation systems f...	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
TestPod	ISISPACE Group	Netherlands	Operational Temperature: -50 to +100°C	on request
Teton CubeSat Deployer	Tetonsys	United States	Type: CubeSat deployer	on request
TiNi Flat Pack FP50 Miniature Hold-Down Release Mechanism	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Mass: 1.17 oz (33 g) max	on request
TiNi™ Pin Puller P10	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force: 10 lbf (44 N)	on request
TiNi™ Pin Puller P100	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force: 100 lbf (445 N)	on request
TiNi™ Pin Puller P1000	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force: 1,000 lbf (4,450 N)	on request
TiNi™ Pin Puller P25	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force: 25 lbf (111 N)	on request
TiNi™ Pin Puller P50	Ensign-Bickford Aerospace & Defense (EBAD)	United States	Pull Force: 50 lbf (222 N)	on request
TPOD (Third Planet Orbital Deployer)	Third Planet Orbital	United Kingdom	Variant: TPOD-12XL	on request
TRIGGY — Shape Memory Alloy Breakable Fastener	Nimesis Technology	—	Technology: Shape memory alloy (SMA) actuator	on request
Tu-POD Deployer	Tetonsys	United States	Type: PicoSat / PocketQube sub-deployer	on request
Tulip	ISISPACE Group	Netherlands	Mass (two petals): ~38 kg (estimate)	on request
UNIKA HDRM Preload Device	SPACERACE s.r.o.	Czech Republic	Mechanical interface: User customized mating head	on request
XCD-12U/16U Hybrid	XTERRA (Arrow Science and Technology)	United States	Satellite formats supported: 8U, 12U, 16U	from \$89 750
XCD-3U/6U Hybrid	XTERRA (Arrow Science and Technology)	United States	Satellite formats supported (3U tube): 1U, 2U, 3U	from \$44 750
XTERRA CubeSat Dispenser (XCD) Hybrid	XTERRA (Arrow Science and Technology)	United States	Model: XCD-3U/6U Hybrid	on request

Products by manufacturer

New Space company designing modular nanosatellite/CubeSat hardware: structures, solar panels, EPS, antennas, OBCs, and deployers/separation systems.



2NDSpace Srl
OPER CubeSat Deployer

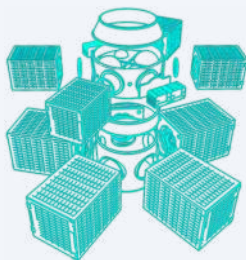
The OPER CubeSat Deployer is a lightweight and customizable separation system designed for CubeSats, featuring redundant non-pyrotechnic actuation and an easy reset procedure.

Form factor	12U/16U
Design	Lightweight
Lateral clearance	High
Customization	Available for OTV and launch service providers
Actuation	Redundant, non-pyrotechnic

price on request

Adaptive Launch Solutions

Adaptive Launch Solutions (ALS) provides launch integration services and designs adaptive structures and avionics for multi-manifesting pico to small satellites on various launch vehicles.



ADAPTIVE LAUNCH SOLUTIONS
Adaptive Launch Solutions

A family of adaptive structures and avionics from Adaptive Launch Solutions (ALS) that safely house and integrate satellites for launch across multiple National Security Space Laun

Configurations	5 variants (Types 1G, 1E, 1M, 1S, 1C)
Usable diameter	1.5 m – 2.5 m
Compatible payload classes	ESPA Grande, ESPA, CubeSat
Integration	A-Deck + APSU + dispensers

price on request

Alba Orbital

Alba Orbital manufactures PocketQube satellites, provides launch and ground station services, and operates a fleet of nighttime imaging satellites for government and commercial clients.



ALBA ORBITAL
AlbaPod Deployer

AlbaPod is a PocketQube satellite deployer developed by Alba Orbital. Designed to attach to ESPA rings or as a hosted payload, AlbaPod enables the deployment of multiple PocketQube

price on request

ALBA ORBITAL
PocketQube Deployer

Alba Orbital's dedicated launch and deployment service for PocketQube satellites (3.5 cm cube form factor) to LEO.

Satellite Standard	PocketQube (5 cm × 5 cm × 5 cm)
Orbit	LEO (SSO via SpaceX Transporter and other rideshare)
Services	Deployment, licensing, spectrum coordination
Company Location	Glasgow, Scotland, UK

price on request

Arquimea

SPAIN · 2007 · 6 PRODUCTS

Spanish space technology company founded 2007 in Leganes, developing MEMS relay switches, SiC power devices, and miniaturized power conditioning units for satellite applications.



ARQUIMEA
REAC-053 V2 SX 5kN Nitinol Release Actuator

Miniature low-shock resettable HDRA with 5 kN release load using Nitinol (TiNi) shape memory alloy, standard temperature range variant.

Release Load	5 kN
Ultimate Load	7.5 kN
Mass	226–230 g
SMA Material	Nitinol (TiNi)
Current Consumption	4 A

price on request



ARQUIMEA
REAC-053 V2 SX 5kN SMARQ Release Actuator

Miniature low-shock resettable hold-down and release actuator with 5 kN release load. SMARQ shape memory alloy, smallest in REACT family.

Release Load	5 kN
Ultimate Load	7.5 kN
Mass	226–230 g
Supply Voltage	25 V
Bridge Resistance	15 Ω

price on request



ARQUIMEA

REAC-153 V2 SX 15kN Nitinol Release Actuator

Low-shock resettable HDRA with 15 kN release load using Nitinol shape memory alloy, standard temperature range (-90 to +65 °C).

Release Load	15 kN
Ultimate Load	22.5 kN
Mass	300 g
SMA Material	Nitinol (TiNi)
Current Consumption	4 A

price on request



ARQUIMEA

REAC-153 V2 SX 15kN SMARQ Release Actuator

Low-shock resettable hold-down and release actuator with 15 kN release load. SMARQ shape memory alloy, standard SX variant, pyro-compatible, flight proven.

Release Load	15 kN
Ultimate Load	22.5 kN
Proof Load	18.7 kN
Mass	268 g
Supply Voltage	25 V

price on request



ARQUIMEA

REAC-353 V2 35kN Nitinol Release Actuator

Large low-shock resettable HDRA with 35 kN release load using Nitinol shape memory alloy, standard temperature range variant.

Release Load	35 kN
Ultimate Load	52.5 kN
SMA Material	Nitinol (TiNi)
Misalignment Capability	±2.5°
Release Shock	< 1,300 g

price on request



ARQUIMEA

REAC-353 V2 EX 35kN SMARQ Release Actuator

Low-shock resettable hold-down and release actuator for space with 35 kN release load. SMARQ shape memory alloy, pyro-compatible interface, flight proven.

Release Load	35 kN
Ultimate Load	52.5 kN
Proof Load	43.5 kN
Mass	367 g
Supply Voltage	25 V

price on request

Clutch Space Systems

UNITED KINGDOM · 2018 · 1 PRODUCT

Clutch Space Systems develops software-defined ground station solutions that dramatically reduce the cost and complexity of satellite communications, enabling ground operators to multiply capacity by an order of magnitude without replacing

CLUTCH SPACE SYSTEMS

Satellite Separation and Deployment Systems

Clutch Space Systems' satellite separation mechanisms, spring-loaded deployment systems, and motorized hold-down release actuators for satellite and payload separation.

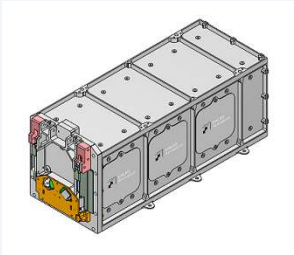
Products	Spring-loaded deployment systems, SMA hold-
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	down/release, separation bolts
Interfaces	6U, 12U CubeSat dispenser; ESPA-class satellite interface
SMA Actuators	Pyrotechnic-free (no shock, no HAZMAT, simpler regulatory)
Engineering	Shock analysis, spring design, contamination assessment
Market	CubeSat/smallsat constellation deployment (high volume, low cost)
price on request	

DALRO Aerospace

SOUTH KOREA · 2023 · 1 PRODUCT

South Korean manufacturer of satellite deployers (CubeSat/small-satellite dispensers) and provider of launch integration services.



DALRO AEROSPACE
DS – POD

The DS-POD (DALRO Standard Deployer) is a satellite deployer available in 1U, 3U, 6U, and 16U models, designed for cube and small satellites.

Model Availability	1U / 3U / 6U / 16U Model Available
Testing Status	Environmental Testing Completed

price on request

Dcubed

GERMANY · 5 PRODUCTS

German manufacturer of space deployables using patented Shape Memory and Origami technologies — release actuators, solar arrays, and antenna deployables for CubeSats and microsatellites.



DCUBED
Micro Pin Puller (uD3PP)



DCUBED
Micro Release Nut (uD3RN)

The Dcubed Micro Pin Puller (uD3PP) is a Shape Memory Alloy (SMA) based release actuator designed to secure sensitive equipment during launch and release it safely on orbit. It is

Field-Resetttable	Front and Rear, in Seconds, up to 100 times
Delivery Time	10-12 weeks
Actuation	Fully Redundant
Trigger	Smart SMA
Shock	Very Low

price on request



DCUBED
Nano Pin Puller (nD3PP)

The Dcubed Nano Pin Puller (nD3PP) is a compact, space-qualified, Shape Memory Alloy (SMA) based release actuator designed to secure equipment during launch and release it on orbit

TRL	9
Field Resetttable	Front and Rear, in Seconds, up to 400 times
Delivery Time	6-8 weeks
Actuation	Fully Redundant
Trigger	Smart SMA

price on request

The Dcubed Micro Release Nut (uD3RN) is a Shape Memory Alloy (SMA) based release actuator designed to secure sensitive equipment during launch and release it on orbit. It is a comp

TRL	9
On-Ground Resetttable	40-100 times
Short Delivery Time	10-12 weeks
Axial Load (Release Load)	4,000 N
Proof Load	4,500 N Pull-out

price on request



DCUBED
Nano Release Nut (nD3RN)

The Dcubed Nano Release Nut (nD3RN) is a space-proven, resetttable, Shape Memory Alloy (SMA) based release actuator for compact space mechanisms, available in Stainless Steel or Alu

TRL	9
Resettability	On-Ground and In-Space Resetttable in Seconds, up to 400 times
Delivery Time	Short (6-8 weeks)
Actuation	Fully Redundant
Trigger	Smart SMA

price on request



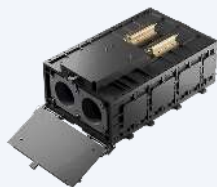
DCUBED
Pin Pullers

The Pin Puller product line offers easy-to-use and highly-resetttable release actuators designed for shear-load applications in space.

Size (Micro Pin Puller uD3PP)	Ø28x52 mm / Ø1.1x20.27 in
Mass (Micro Pin Puller uD3PP)	85 grams / 3 oz
Load (Micro Pin Puller uD3PP)	Shear Load: >490 N / 110 lbf
TRL (Micro Pin Puller uD3PP)	9
Size (Nano Pin Puller nD3PP)	17x17x17 mm / 0.67x0.67x0.67 in

price on request

Dhruva Space is an Indian space technology company founded in 2012, providing satellites, Earth stations, and launch services as integrated or individual solutions.



DHRUVA SPACE
Dhruva LEAP Deployer

The LEAP (Launch & Experimental Agnostic Platform) Deployer is a satellite deployment platform developed by Dhruva Space. LEAP is designed to host and deploy small satellites (

price on request



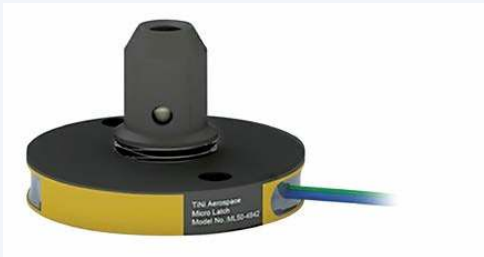
DHRUVA SPACE
DSOD Satellite Orbital Deployer Series

Space-qualified CubeSat orbital deployers (1U, 3U, 6U, 12U, 16U) with non-pyrotechnic HDRM, onboard telemetry sensors, and ISRO PSLV flight heritage.

Configurations	1U, 3U, 6U, 12U, 16U CubeSat
Release mechanism	Non-pyrotechnic HDRM
Telemetry	Onboard sensors for deployment confirmation and ejection velocity
Launch vehicle heritage	ISRO PSLV (PSLV-C53 1U; PSLV-C55 3U/6U)
TRL	9 (space-qualified)

price on request

US manufacturer of non-explosive actuators (TiNi FrangiBolt, pin pullers, ejectors) and energetic hold-down and release systems.

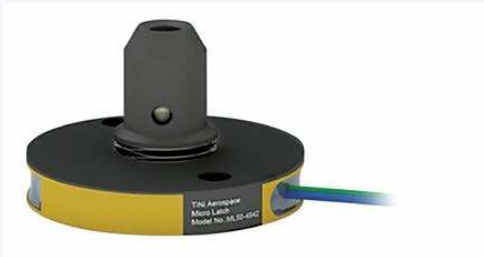


ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
EBAD TiNi Microlatch ML50-1 Separation System

A non-pyrotechnic, field-resettable separation system for low preload dispensing, utilizing shape memory alloy technology.

Max Release Load	50 lbf (222 N)
Proof Load	100 lbf (445 N)
Max Torque	25 in-oz
Coupler Kick-Off Force	7.5 lbf
Mass	.53 (15 g)

price on request [datasheet](#)



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
EBAD TiNi Microlatch ML50-2 Separation System

A non-pyrotechnic, field-resettable separation system for low preload dispensing, utilizing shape memory alloy technology, with a higher voltage range.

Max Release Load	50 lbf (222 N)
Proof Load	100 lbf (445 N)
Max Torque	25 in-oz
Coupler Kick-Off Force	7.5 lbf
Mass	.53 (15 g)

price on request [datasheet](#)



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD) EBAD TiNi™ ejector

The EBAD TiNi™ ejector, also known as the microlatch and ejector release mechanism (ERM), is designed to support and release spacecraft deployables. It can accommodate attaching sc

Attaching screw thread size	4-40 to 3/8"-24
Preload range	50 lbf (222 N) to 4000 lbf (17800 N)
ERM qualified life	minimum 50 cycles
Micro Latch qualified life	minimum 100 cycles
Actuation pulse (TiNi™ ERMs)	25 milliseconds or less (standard pyro pulse)

price on request

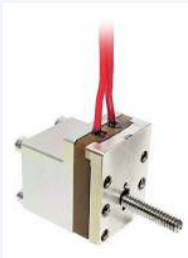


ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD) EBAD TiNi™ Pin Puller

The EBAD TiNi™ Pin Puller is a fast-acting device designed for a variety of Aerospace applications. It achieves pin retraction by combining the recovery characteristics of Shape Me

Pin Puller pull force range	5 to 1000 lbf
Standard sizes offered	Five
Flight Heritage	Mars Global Surveyor spacecraft (November 1996) and numerous other space applications
Minimum qualified life	100 cycles

price on request

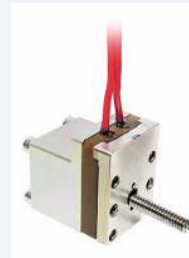


ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD) NEA Model 9040 Miniature Hold Down & Release Mechanism (HDRM)

A non-pyrotechnic Hold Down & Release Mechanism (HDRM) for spacecraft, supporting release loads up to 250 lbf with ultra-low shock.

Proof Load Rating	300 lbf (1,300 N)
Release Load Rating	250 lbf (1,100 N)
Output Shock @ Preload	<300 g's @ 250 lbf (1,112 N)
Fuse Wire Resistance	0.8 - 1.8 Ω
Actuation Current	3.0 Amps for 50 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD) NEA Model 9100 Hold Down & Release Mechanism

The NEA Model 9100 is an electrically initiated, one-shot non-pyrotechnic Hold Down & Release Mechanism (HDRM) designed to carry high tensile preloads until commanded to releas

Proof Load Rating	1,700 lbf (7,600 N)
Release Load Rating	1,360 lbf (6,000 N)
Shock @ Preload	<300 g's @ 1,360 lbf (6,000 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 25 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA Model 9106B Hold Down & Release Mechanism (HDRM)

The NEA Model 9106B is a non-pyrotechnic, electrically initiated, one-shot Hold Down & Release Mechanism (HDRM) capable of supporting release loads up to 32,000 lbf (142,000 N)

Proof Load Rating	40,000 lbf (178,000 N)
Release Load Rating	32,000 lbf (142,000 N)
Shock @ Preload	<1,000 g's @ 32,000 lbf (142,000 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 25 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA PRM 9103A Payload Release Module

The PRM 9103A is an ultra-low shock, electrically initiated, single-shot, and factory refurbishable release mechanism. It can carry a high tensile preload, which is applied through

Axial Preload	Up to 15,000 lbf
Axial Stiffness	9.28 E+5 lbf/in
Shear Stiffness	5.98 E+6 lbf/in
Bending Stiffness	2.38 E+6 in-lbf/rad
Shock Output	<500 g's

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA PRM 9104A Payload Release Module

The PRM 9104A is an ultra-low shock, electrically initiated, single-shot, and factory refurbishable release mechanism. It can carry a high tensile preload, which is applied through

Axial Preload	Up to 8,500 lbf
Axial Stiffness	2.02 E+6 lbf/in
Shear Stiffness	9.0 E+5 lbf/in
Bending Stiffness	7.5 E+5 in-lbf/rad
Shock Output	<300 g's

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA® 15" Payload Release Ring (PRR-15)

The NEA® 15" Payload Release Ring (PRR-15) is a flight-proven mechanism designed to release payloads from a launch vehicle, utilizing four NEA® release mechanisms and separation sp

Payload Capability	250 kg
Shock Output	<300 g's
Release Time	<40 ms
Total Mass	6.4 lb (2.9 kg)
Fly Away Mass	2.2 lb (1 kg)

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

NEA® 24" Payload Release Ring (PRR-24)

The NEA® 24" Payload Release Ring (PRR-24) is a payload release mechanism that utilizes the flight-proven technology of the NEA® mechanism product line to release payloads fr

Payload Capability	500 kg
Shock Output	<300 g's
Release Time	<40 ms
Total Mass	10.58 lb (4.8 kg)
Fly Away Mass	3.5 lb (1.6 kg)

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

NEA® 8" Payload Release Ring (PRR-8)

The NEA® 8" Payload Release Ring (PRR-8) is a low-shock, low-mass mechanism designed to release payloads up to 100 kg from a launch vehicle, utilizing four NEA® release mechanisms

Payload Capability	100 kg
Shock Output	<300 g's
Release Time	40 ms
Total Mass	4.7 lb (2.1 kg)
Fly Away Mass	1.6 lb (0.7 kg)

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

NEA® Model 2545 Pin Puller

A non-pyrotechnic pin puller for satellite applications, providing a pull force of 25 lbf (111 N) and actuated by a current of 4 Amps for 25 ms.

Pull Force at End of Stroke	25 lbf (111 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 25 ms
No-Fire Current (continuity)	250 mA
Release Time	<50 ms

price on request



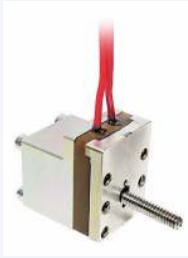
ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

NEA® Model 9102G Hold Down & Release Mechanism (HDRM)

The NEA® Model 9102G is an electrically initiated, one-shot, non-pyrotechnic Hold Down & Release Mechanism capable of supporting restrained preloads up to 4,000 lbf (17,800 N)

Proof Load Rating	5,000 lbf (22,200 N)
Release Load Rating	4,000 lbf (17,800 N)
Shock @ Preload	4,000 lbf (17,800 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 25 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA® Model 9103 Hold Down & Release Mechanism (HDRM)

The NEA® Model 9103 is an electrically initiated, one-shot non-pyrotechnic Hold Down & Release Mechanism (HDRM) capable of supporting release loads up to 7,868 lbf (35,000 N).

Proof Load Rating	9,217 lbf (41,000 N)
Release Load Rating	7,868 lbf (35,000 N)
Shock @ Preload	<750 g's @ 7,868 (35,000 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 25 ms

price on request

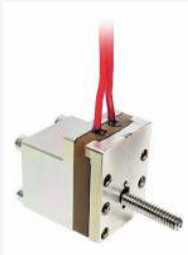


ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA® Model 9107 Hold Down & Release Mechanism (HDRM)

The NEA® Model 9107 is an electrically initiated, one-shot hold down and release mechanism capable of carrying high tensile preload until commanded to release, offering extremely l

Proof Load Rating	58,500 lbf (260,000 N)
Release Load Rating	46,000 lbf (195,000 N)
Shock @ Preload	<1,100 g's @ 46,000 lbf (195,000 N)
Fuse Wire Resistance	1.2 to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 60 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA® Model 9108 Hold Down & Release Mechanism (HDRM)

The NEA® Model 9108 is an electrically initiated, one-shot hold down and release mechanism supporting release loads up to 72,000 lbf (320,000 N) with ultra-low shock.

Proof Load Rating	86,400 lbf (384,000 N)
Release Load Rating	72,000 lbf (320,000 N)
Shock @ Preload	<1500 g peak at 76k lbf preload
Fuse Wire Resistance	0.75 Ω to 2.0 Ω @ 25°C
Actuation Current	4 Amps for 60 ms

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
NEA® Payload Release Module PRM 9103A

The PRM 9103A is an ultra-low shock, electrically initiated, single-shot, and factory refurbishable release mechanism designed to carry a high tensile preload until commanded to re

Axial Preload	Up to 15,000 lbf
Axial Stiffness	9.28 E+5 lbf/in
Shear Stiffness	5.98 E+6 lbf/in
Bending Stiffness	2.38 E+6 in-lbf/rad
Shock Output	<500 g's

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

NEA® Payload Release Module PRM 9104A

The PRM 9104A is an ultra-low shock, electrically initiated, single-shot, and factory refurbishable release mechanism designed to carry a high tensile preload until commanded to re

Axial Preload	Up to 8,500 lbf
Axial Stiffness	2.02 E+6 lbf/in
Shear Stiffness	9.0 E+5 lbf/in
Bending Stiffness	7.5 E+5 in-lbf/rad
Shock Output	<300 g's

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

Payload Separation and Release Systems

Complete separation and release technology portfolio including linear shaped charges, frangible joints, separation bolts and nuts for launch vehicles and spacecraft stages.

Products	Linear shaped charges, frangible joints, separation bolts/nuts, TiNi ejectors, NEA devices
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Max static load	Up to 100,000 lbf
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Technologies	Pyrotechnic and non-pyrotechnic (non-energetic) options
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Applications	Launch vehicle staging, satellite separation, payload deployment
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Heritage	50+ years, invention of the Linear Shaped Charge
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price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

Spacecraft Dispensing Systems

Flight-proven separation and dispensing systems for single payloads, secondary payloads, and large satellite constellation deployment from rideshare launch vehicles.

Payload range	Small CubeSat to 40 metric ton primary payloads
Applications	Single payloads, secondary rideshare, constellation deployment
Technologies	Pyrotechnic and non-pyrotechnic separation systems
Flight record	Zero in-orbit failures across all dispensing systems
Heritage	60+ years serving satellite and launch vehicle markets

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

TiNi Flat Pack FP50 Miniature Hold-Down Release Mechanism

The TiNi Flat Pack FP50 is a miniature, non-pyrotechnic, and field-resettable hold-down release mechanism utilizing shape memory alloy for low-load applications.

Mass	1.17 oz (33 g) max
Power	1.25 W @ .75 A
Operational Current	.4 A to 1.5 A
Resistance	3.3±.3 Ω @ 23°C
Max Release Load	50 lbf (222.4 N)

price on request

[datasheet](#)



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

TiNi™ Pin Puller P10

A non-pyrotechnic pin puller utilizing Shape Memory Alloy (SMA) wire, offering a 10 lbf (44 N) pull force and a minimum of 100 cycles.

Pull Force	10 lbf (44 N)
Side Load (actuation)	10 lbf (44.5 N)
Side Load (non-actuation)	100 lbf (444.8 N)
Mass	1.06 oz (30 g)
Operating Current	.4 to 1.5 A

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

TiNi™ Pin Puller P100

A non-pyrotechnic pin puller utilizing Shape Memory Alloy (SMA) wire, offering a 100 lbf (445 N) pull force and a minimum of 50 cycles.

Pull Force	100 lbf (445 N)
Side Load (actuation)	100 lbf (445 N)
Side Load (non-actuation)	490 lbf (2,180 N)
Mass	5.3 oz (150 g)
Operating Current	2.25 A to 6.5 A

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

TiNi™ Pin Puller P1000

A non-pyrotechnic pin puller utilizing Shape Memory Alloy (SMA) wire, offering a 1,000 lbf (4,450 N) pull force and a minimum of 50 cycles.

Pull Force	1,000 lbf (4,450 N)
Side Load (actuation)	500 lbf (2,224 N)
Side Load (non-actuation)	600 lbf (2,670 N)
Mass	17 oz (482 g)
Operating Current	2.75 A to 8.75 A

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)

TiNi™ Pin Puller P25

A non-pyrotechnic pin puller utilizing Shape Memory Alloy (SMA) wire, offering a 25 lbf (111 N) pull force and a minimum of 100 cycles.

Pull Force	25 lbf (111 N)
Side Load (actuation)	20 lbf (89 N)
Side Load (non-actuation)	330 lbf (1,468 N)
Mass	1.7 oz (48 g)
Operating Current	.6 to 2 A

price on request



ENSIGN-BICKFORD AEROSPACE & DEFENSE (EBAD)
TiNi™ Pin Puller P50

A non-pyrotechnic pin puller utilizing Shape Memory Alloy (SMA) wire, offering a 50 lbf (222 N) pull force and a minimum of 50 cycles.

Pull Force	50 lbf (222 N)
Side Load (actuation)	50 lbf (222 N)
Side Load (non-actuation)	400 lbf (1,823 N)
Mass	2.6 oz (75 g)
Operating Current	1.25 A to 4.5 A

price on request

EXA (Astro-und Feinwerktechnik)

GERMANY · 1993 · 3 PRODUCTS

German manufacturer of reaction wheels, CubeSat picosatellite deployers, and AOCS components for small satellites, based in Berlin-Adlershof.

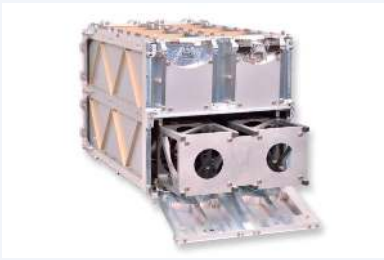


EXA (ASTRO-UND FEINWERKTECHNIK)
ASTROFEIN PicoSatellite Launcher PSL1U / PSL2U / PSL3U

The ASTROFEIN PicoSatellite Launcher (PSL) series offers deployers for 1U, 2U, and 3U CubeSats, featuring a flight-proven non-explosive lock and release mechanism.

CubeSat Rail Length (Z) [mm]	113.5 (PSL1U), 227.0 (PSL2U), 340.5 (PSL3U)
CubeSat Rail Width (X) [mm]	100 (PSL1U), 100 (PSL2U), 100 (PSL3U)
CubeSat Rail Height (Y) [mm]	100 (PSL1U), 100 (PSL2U), 100 (PSL3U)
Number of Tuna Cans	1 (PSL1U), 1 (PSL2U), 1 (PSL3U)
Maximum Satellite Mass [kg]	<=1.33 (PSL1U), <=2.66 (PSL2U), <=4.0 (PSL3U)

price on request datasheet



EXA (ASTRO-UND FEINWERKTECHNIK)
PicoSatellite Launcher PSL12U / PSL12U XL

The ASTROFEIN PSL12U and PSL12U XL are flight-proven CubeSat deployers designed for 1U to 12U CubeSats and combinations, featuring non-explosive lock and release mechanisms and ver

Parameter	PSL12U
(Pack: 1-,2-, 3- and 4-way available)	(Pack: 1-,2-, 3- and 4-way available)
CubeSat Rail Length (Z) [mm]	340.5
CubeSat Rail Width (X) [mm]	226.3
CubeSat Rail Height (Y) [mm]	226.3

price on request datasheet



EXA (ASTRO-UND FEINWERKTECHNIK)

PicoSatellite Launcher PSL6U / PSL6U XL

The ASTROFEIN PSL6U and PSL6U XL are CubeSat deployers designed for 1U, 2U, 3U, or 6U CubeSats, featuring non-explosive mechanisms and a user-friendly, resettable system.

Parameter	PSL6U
(Pack: 1-way & 2-way available)	(Pack: 1-way & 2-way available)
CubeSat Rail Length (Z) [mm]	340.5
CubeSat Rail Width (X) [mm]	226.3
CubeSat Rail Height (Y) [mm]	100

[price on request](#) [datasheet](#)

Exolaunch

GERMANY · 2008 · 6 PRODUCTS

Berlin-based launch and deployment services company providing end-to-end rideshare missions, satellite integration, and proprietary separation hardware for small satellites.



EXOLAUNCH

CarboNIX

Scalable shock-free microsatellite separation system for 10–500 kg satellites; 30 missions, 244 microsats flown.

Satellite mass range	10–500 kg
Available diameters	8", 11.732", 15", 18.25", 24" (custom available)
Tumbling rate post-release	< 1°/sec on all three axes
Deployment type	Entirely shock-free, linear
Flyaway mass	Half that of comparable separation systems

[price on request](#) [datasheet](#)



EXOLAUNCH

CarboNIX NEO

Next-gen shock-free separation system for satellites up to 1000 kg+, with new clamp ring and SpaceX Transporter full-mass range coverage.

Available sizes	8", 15", 24", 31.6", 38.81" (custom)
Maximum satellite mass	1000 kg+
Tumbling rate post-release	< 1°/s on all axes
Deployment type	Linear, shock-free
ITAR status	ITAR-Free

[price on request](#) [datasheet](#)



EXOLAUNCH
EXOpod AIR

Ultra-lightweight CubeSat deployer at 6.5 kg minimum mass; targets small launchers, OTVs, and mass-critical missions.

Minimum deployer mass	6.5 kg (lightest CubeSat deployer on market)
Available sizes	8U, 12U, 12U XL, 16U
CubeSat size range	0.25U to 16U
Heritage	400+ CubeSat deployments (EXOpod family)
ITAR status	ITAR-Free

[price on request](#) [datasheet](#)



EXOLAUNCH
EXOpod Nova

Advanced CubeSat deployer for 0.25U–16U, with +400% lateral protrusion volume vs CDS; 39 missions, 510 CubeSats deployed.

Available sizes	6U/8U, 12U, 16U (configurable to smaller)
CubeSat size range	0.25U to 16U
Lateral protrusion volume vs CDS	+400%
Mass increase over CDS	+30%
ITAR status	ITAR-Free

[price on request](#) [datasheet](#)



EXOLAUNCH
Quadro Arrow

Four-point shock-free separation system for satellites up to 250 kg; Innovation in Space Award 2023 winner; 4 missions flown.

Satellite mass range	Up to 250 kg
Separation points	4
Tip-off rate	Average 0.6°/s on all three axes
Deployment type	Shock-free, no pyrotechnics
Actuation	Single signal releases all 4 points simultaneously

[price on request](#) [datasheet](#)



EXOLAUNCH
Quadro Versa

Scalable four-point separation system for satellites up to 1000 kg+ on SpaceX Rideshare plates, 24"×24" to 40"×40".

Satellite mass range	Up to 1000 kg (and beyond)
Separation points	4
Size range	24"×24" to 40"×40" (scalable)
Tip-off rate	Average 0.6°/s on all three axes
Deployment type	Shock-free, no pyrotechnics

[price on request](#) [datasheet](#)

Italian company specializing in complete lifecycle management of CubeSats and NanoSatellites: design, manufacturing, subsystems, ground stations and deployers.



GAUSS SRL
GPOD CubeSat Deployer

Flexible 1U-3U+ CubeSat deployment mechanism with accessible side panels and non-explosive Frangibolt actuation, flight-proven on Dnepr launches.

Mass	1.9 kg
Nominal Payload Mass	4 kg
Maximum Payload Mass	5.2 kg
Outside envelope (3U)	430 x 132 x 129 mm
Inner Envelope (3U)	100 x 100 x 340.5 mm

[price on request](#) [datasheet](#)

Glavkosmos

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.



GLAVKOSMOS
Manual Deployer of Pico and Nanosatellites

A manual deployer designed for astronauts to launch pico- and nanosatellites from the International Space Station (ISS) during extravehicular activity (EVA). It also protects satel

Purpose	Launch of pico- and/or nanosatellites by astronaut from ISS at extravehicular activity (EV
Year of release	2018
Guaranteed service life (years)	5
Estimated production / delivery time (months)	6
Flight qualification of the product	No



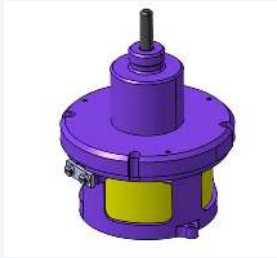
GLAVKOSMOS
Pyrolock

Pyrolock is a spacecraft attachment and shock-free separation device designed to secure a spacecraft to an adapter and release it using a command from the booster control unit.

Purpose	Spacecraft attachment to the adapter for the period of their joint operation; shock-free s
Year of release	1980
Guaranteed service life	6 years
Brief history of flight qualification	Glonass.
Clamping force	8500 kg

[price on request](#)

price on request



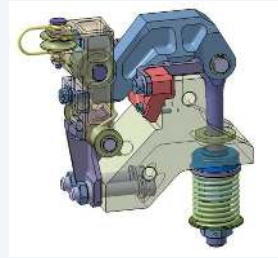
GLAVKOSMOS

Release Device (electromechanical, shock-free). Type 2

The Release Device (electromechanical, shock-free) Type 2 is designed to hold mechanical device hold-down locks in a cocked position, ensuring shock-free release.

Year of release	2017
Guaranteed service life (years)	9
Estimated production / delivery time (months)	4
Brief history of flight qualification	2019-2020
Rod load, kg	4

price on request



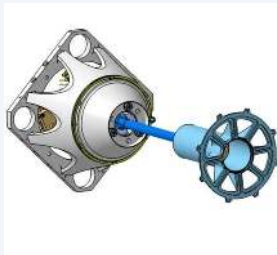
GLAVKOSMOS

Separation Device Clamp Band

A clamp band separation device designed for shock-free spacecraft separation from an adapter, activated by a command from the booster control unit.

Purpose	Spacecraft attachment to the adapter for the period of their joint operation; shock-free s
Year of release	2011
Guaranteed service life (years)	6
Estimated production / delivery time (months)	4
Brief history of flight qualification	Amos-5, Yamal-300K, Express-AT1, Express-AT2, Express-AM8, KazSat-3, Loutch-5V, Express-AM

price on request



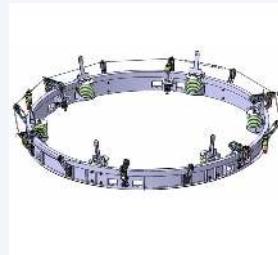
GLAVKOSMOS

Solar Panels Hold-down Lock (mechanical)

A mechanical hold-down lock designed to secure solar panels in their stowed position during launch and early orbital operations, featuring a robust clamping force and extensive fl

Year of release	2007
Guaranteed service life (years)	15
Estimated production / delivery time (months)	4
Brief history of flight qualification	Amos-5, Yamal-300K, Express-AT1, Express-AT2, Express-AM8, KazSat-3, Loutch-5V, Express-AM
Clamping force, kg	2500

price on request



GLAVKOSMOS

Spacecraft Separation Device

A mechanical device designed for the shock-free separation of spacecraft from an adapter, featuring locks, spring-loaded pushrods, a clamp-band with explosive pins, separation conn

Purpose	Spacecraft attachment to the adapter for the period of their joint operation; shock-free s
Year of release	2011
Guaranteed service life	6 years
Estimated production / delivery time	12 months
Brief history of flight qualification	Amos-5, Yamal-300K, Express-AT1, Express-AT2, Express-AM8, KazSat-3, Loutch-5V, Express-AM

price on request



GLAVKOSMOS

Systems for Separating Small, Medium, Heavy Spacecraft

These systems are designed for the separation of small, medium, and heavy spacecraft from launch vehicles, utilizing cumulative charges, small explosive locks, and exciters to ensu

Purpose	Design, manufacture and testing of spacecraft separation systems for structural elements u
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Flight qualification of the product	Yes
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Brief history of flight qualification	Vast work experience.
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Possibility to adapt the product to customer requirements	Yes
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price on request

Gran Systems

UNITED STATES · 1 PRODUCT

System integrator and manufacturer of CubeSat structures, buses, and MyPOD test/transport pods, with space environment test equipment services.



GRAN SYSTEMS

6U MyPOD2

The 6U MyPOD2 is a versatile CubeSat deployer/dispenser designed for qualification, acceptance testing, dimensional fit-check, storage, and transportation of CubeSats.

Temperature range	-50°C to +100°C
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External Size (L x W x H)	268 x 141 x 442.1 mm
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Rail Size (L x W x H)	100.8 x 227.0 mm
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CubeSat Size (L x W x H)	100.0 x 226.3 x 366.0 mm
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Empty Mass	8.5 kg
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price on request

ISISPACE provides launch services, manufactures CubeSat deployers and other launch equipment, and acts as a satellite systems integrator for small satellites.



INNOVATIVE SPACE LOGISTICS
Deep Space Deployer (DSD)

The Deep Space Deployer (DSD) from ISISPACE is an ESA-approved multi-staged separation system designed for deep space exploration, enabling health checks of satellites prior to rel

price on request



INNOVATIVE SPACE LOGISTICS
ISIPOD

The ISIPOD is ISISPACE's spring-loaded CubeSat deployer, one of the world's most-flown CubeSat launch adapters, available in 1U, 2U and 3U configurations.

Supported CubeSat sizes	1U, 2U, 3U (and combinations)
1-Unit ISIPOD deployer mass	1.5 kg
1-Unit ISIPOD maximum payload mass	2 kg
2-Unit ISIPOD deployer mass	1.75 kg
3-Unit ISIPOD deployer mass	2 kg

price on request [datasheet](#)



INNOVATIVE SPACE LOGISTICS
Modular Deployment Sequencer (MDS)

The Modular Deployment Sequencer (MDS) is a dual-redundant system that ensures precise satellite deployment by activating upon a valid command from the Launch Vehicle (LV) and exec

price on request



INNOVATIVE SPACE LOGISTICS
QuadPack Deployer

The QuadPack Deployer from ISISPACE is a reliable and proven CubeSat deployer designed for maximum efficiency, supporting the deployment of CubeSats with release velocity under 1.8

Release velocity	under 1.8 m/s
Flight heritage	over a decade
Success rate	100%

price on request



ISISPACE GROUP
Deep Space Deployer

ESA-approved multi-staged separation system for deep space exploration, enabling pre-release health checks of satellites in space.

Compatible Satellite Size	6UXL
Mass	4.9 kg
Closed Envelope (L x W x H)	272 x 156.7 x 432.4 mm
Open Envelope (L x W x H)	272 x 206.77 x 555.05 mm
Release Speed	3 cm/s (can be modified)

price on request



ISISPACE GROUP
DuoPack Deployer

Lightweight CubeSat deployer for satellites up to 6UXL, lightest deployer in the market with 10+ years flight heritage.

Type XL configurations	1XL (1x 6UXL satellite), 2XL (2x 3UXL satellite)
Mass	4.1 – 4.8 kg
Closed Envelope (L x W x H)	272 x 193.4 x 445.7 mm
Open Envelope (L x W x H)	272 x 146.7 x 432.4 mm
Release Speed	0.8 – 1.8 m/s

price on request



ISISPACE GROUP
Microsatellite Separation System (M3S)

Three-point microsatellite launch adapter for satellites up to 120 kg: shock-free deployment, Falcon 9 / PSLV / Vega compatible.

Maximum Satellite Mass	120 kg
Interface Type	Three-point launch adapter
Deployment Features	Shock-free deployment, low tip-off rates
Launch Vehicle Compatibility	Falcon 9, PSLV, Vega and others
Customisation	Tailored to customer satellite interface requirements

price on request

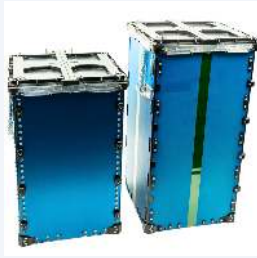


ISISPACE GROUP
Modular Deployment Sequencer

Dual-redundant deployment sequencing system for precise multi-satellite deployment control and launch vehicle telemetry.

Mass	~1 kg (4 deployers, external power) to ~2 kg (8 deployers, internal power)
Volume	250 x 100 mm base area (height dependent on number of modules)
Pulse Power Supply	28V ±4V
Pulse Power Supply Duration	0.1–2 s
Activation Pulse	Purely resistive load, galvanic isolation, serial switch across 2x 10 Ohm resistors (2W ra

price on request



ISISPACE GROUP

QuadPack Deployer

Versatile lightest-in-class CubeSat deployer for 1U–16U satellites with 100% success rate over 250+ units delivered.

12UXL QuadPack configurations	1XL (1x 12UXL satellite), 2XL (2x 6UXL satellite), 3XL (2x 3UXL + 1x 6UXL), 4XL (4x 3UXL)
16U QuadPack configurations	1.4 (1x 16U satellite), 2.4 (2x 8U satellite)
Mass	6.6 – 8.1 kg
Closed Envelope (L x W x H)	12UXL: 272 x 273 x 434.4 mm; 16U: 272 x 273 x 524.5 mm
Open Envelope (L x W x H)	12UXL: 365.4 x 273 x 547.7 mm; 16U: 365.4 x 273 x 635.8 mm

price on request



ISISPACE GROUP

TestPod

Flight-representative test and transport container for CubeSats 1U–16U, enabling mission validation and transportation safety.

Operational Temperature	-50 to +100°C
Empty Mass	5.6 – 13.4 kg
Payload Mass (typical) — 3UXL	3.0 kg
Payload Mass (typical) — 6UXL–8U	6.0 kg
Payload Mass (typical) — 12UXL–16U	12.0 kg

price on request



ISISPACE GROUP

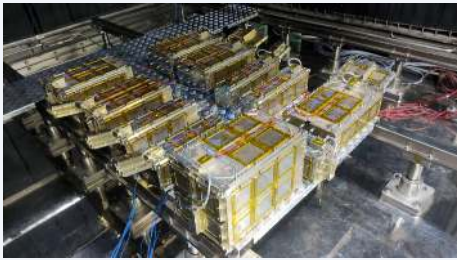
Tulip

Modular multi-payload adapter interfacing launch vehicle structure to microsatellites and CubeSat deployers, supporting up to 6 petals.

Mass (two petals)	~38 kg (estimate)
Mass (four petals)	70.1 kg
Mass (six petals)	~100 kg (estimate)
Payload fairing envelope diameter	~2 m
Interface to LV	36x D24 thread holes

price on request

South Korean nanosatellite manufacturer offering CubeSat platforms, optical imagers, star trackers, solar panels, EPS, structures, and deployers for the commercial small satellite market.



KAIRO SPACE
KSD CubeSat Deployers

CubeSat deployer systems for launch vehicle integration, supporting 1U–6U nanosatellite deployment in LEO.

Compatible Payloads	1U, 2U, 3U, 6U CubeSat
Deployment	Spring-ejection
Retention	Positive retention during launch loads
Trigger	Separation command signal

price on request

KOSMOLAB Launch Services

RUSSIA · 2018 · 17 PRODUCTS

CubeSat & small-satellite rideshare brokerage — integration, paperwork, launch insurance on PSLV, Falcon 9 Transporter, Ariane 6 and Soyuz.



KOSMOLAB LAUNCH SERVICES
Deployer EXT 16U

The Deployer EXT 16U is a CubeSat deployer designed for 16U-class CubeSats, featuring an extended accommodation zone.

Dimensions (L×W×H)	600 × 290 × 299 mm
Mass	9 kg
Max. satellite mass	40 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

₽6 000 000 [datasheet](#)



KOSMOLAB LAUNCH SERVICES
Deployer SERIES 12U

The Deployer SERIES 12U is a CubeSat deployer designed for the deployment of a single 12U-class spacecraft. It is compatible with various launch vehicles and offers customization o

Dimensions (L×W×H)	480 × 290 × 299 mm
Mass	8,5 kg
Max. satellite mass	26 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

₽5 000 000 [datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployer SERIES 16U

The Deployer SERIES 16U is designed for the deployment of a single 16U-class spacecraft, compatible with various launch vehicles.

Dimensions (L×W×H)	600 × 290 × 299 mm
Mass	12 kg
Max. satellite mass	40 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€6 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployer SERIES 2x3U/1x6U

The Deployer SERIES 2x3U/1x6U is a CubeSat deployer designed for simultaneous deployment of two 3U and one 6U-class CubeSats in a single launch.

Dimensions (L×W×H)	480 × 290 × 299 mm
Mass	9,5 kg
Max. satellite mass	26 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€6 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployer SERIES 2x6U

The Deployer SERIES 2x6U is a CubeSat deployer designed to simultaneously deploy two 6U-class CubeSats, compatible with various launch vehicles.

Dimensions (L×W×H)	480 × 290 × 299 mm
Mass	9 kg
Max. satellite mass	26 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€5 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployer SERIES 4x3U

The Deployer SERIES 4x3U is a CubeSat deployer designed to simultaneously deploy four 3U-class CubeSats. It is compatible with various launch vehicles and offers customization options.

Dimensions (L×W×H)	480 × 290 × 299 mm
Mass	10 kg
Max. satellite mass	26 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€6 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployers 12U LIGHT

The KosmoLab 12U LIGHT deployer is a lightweight solution for launching CubeSats, designed to maximize payload mass by minimizing the deployer's own weight.

Mass	6 kg
Max. satellite mass	26 kg
Satellite mass range	up to 26
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€5 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployers 16U LIGHT

The KosmoLab 16U LIGHT deployer is a lightweight CubeSat deployer designed to minimize mass while providing extended areas for CubeSat spacing and secure clamping.

Mass	6 kg
Max. satellite mass	40 kg
Satellite mass range	up to 40
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€5 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployers 3U

The KosmoLab 3U Deployer provides transport and deployment for 3U-class CubeSats, compatible with various launch vehicles.

Dimensions (L×W×H)	557 × 158 × 187 mm
Mass	4.7 kg
Max. satellite mass	6 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€3 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployers 4U

The KosmoLab Deployers 4U are designed for the transport and deployment of 4U-class CubeSats, compatible with various launch vehicles.

Dimensions (L×W×H)	557 × 158 × 187 mm
Mass	4.7 kg
Max. satellite mass	6 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s

€3 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment Sequencer BU-12

The Deployment Sequencer BU-12 receives an activation signal from a launch vehicle to initiate a mission cyclogram, providing output signals for satellite deployment and returning

Dimensions (L×W×H)	300 × 235 × 145 mm
Mass	4.5 kg
Payload supply voltage	28 V
Current per channel	2 A
Max total current	4 A

€1 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment Sequencer BU-24

The Deployment Sequencer BU-24 is a device that initiates satellite deployment sequences upon receiving an activation signal from a launch vehicle. It also provides telemetry feedb

Dimensions (L×W×H)	300 × 235 × 145 mm
Mass	5.0 kg
Payload supply voltage	28 V
Current per channel	2 A
Max total current	4 A

€1 750 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment Sequencer BU-36

The Deployment Sequencer BU-36 receives an activation signal from a launch vehicle and initiates a mission cyclogram to deploy satellites, while also providing telemetry feedback.

Dimensions (L×W×H)	300 × 235 × 145 mm
Mass	5.5 kg
Payload supply voltage	28 V
Current per channel	2 A
Max total current	4 A

€2 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

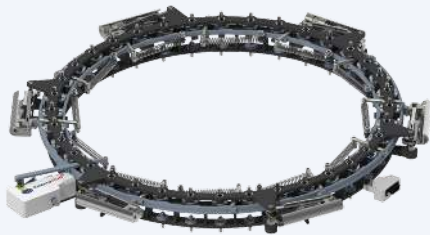
Deployment System 100 kg

The Deployment System 100 kg is a non-pyrotechnic separation mechanism designed for space satellites weighing up to 100 kg, ensuring smooth and shockless deployment.

Mass	8.0 kg
Max. satellite mass	100 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s
Angular separation velocity	≤ 2 °/s

€7 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment System 200 kg

The Deployment System 200 kg is a non-pyrotechnic separation system designed for space satellites up to 200 kg, ensuring smooth and shockless deployment.

Mass	13.5 kg
Max. satellite mass	200 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s
Angular separation velocity	≤ 2 °/s

€9 500 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment System 50 kg

A non-pyrotechnic deployment system designed for 50 kg space satellites, ensuring smooth and shockless separation from the launch vehicle's upper stage.

Mass	4.0 kg
Max. satellite mass	50 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s
Angular separation velocity	≤ 2 °/s

€6 000 000

[datasheet](#)



KOSMOLAB LAUNCH SERVICES

Deployment System 500 kg

The Deployment System 500 kg is a non-pyrotechnic separation system designed for space satellites up to 500 kg, ensuring smooth and shockless deployment.

Mass	17 kg
Max. satellite mass	500 kg
Separation time	≤ 1 s
Separation velocity	0.5 – 2.0 m/s
Angular separation velocity	≤ 2 °/s

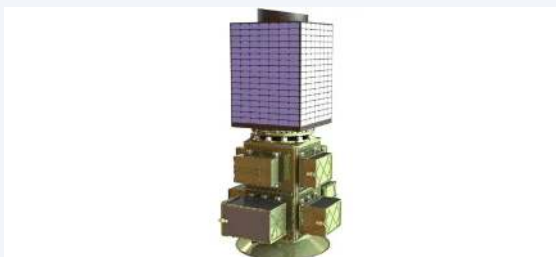
€12 000 000

[datasheet](#)

Maverick Space Systems

UNITED STATES · 2019 · 11 PRODUCTS

End-to-end small satellite launch integration and mission management for university, government, and commercial customers; San Luis Obispo, CA.



MAVERICK SPACE SYSTEMS

Dedicated NLV Payload Stack

Customized payload aggregation platforms for dedicated missions on small launch vehicles.

Application	Dedicated missions on small launch vehicles
Delivery model	Customized payload aggregation platform
Scope	Up to full stack dispenser solutions

price on request



MAVERICK SPACE SYSTEMS

Maverick 4-Point Medium-duty Separation System (M4P-M)

4-point separation system for ESPA class payloads up to 840 kg, with tunable spring rates, low shock and flight-proven heritage.

Type	4-point separation system
Payload class	ESPA class, up to 840 kg
Spring rates	Tunable, to minimize tipoff
Shock	Low shock
Status	Fully qualified, flight-proven heritage

price on request



MAVERICK SPACE SYSTEMS

Mercury-12 Lightweight 12U CubeSat Dispenser

12U lightweight dispenser for rail-type CubeSats, available starting Q1 2024.

Form factor	12U
CubeSat interface	Rail-type
Availability	Available starting Q1 2024

price on request

MAVERICK SPACE SYSTEMS

Maverick 4-Point Lightweight Separation System (M4P-L)

4-point separation system for ESPA class payloads up to 400 kg, with tunable spring rates, low shock and flight-proven heritage.

Type	4-point separation system
Payload class	ESPA class, up to 400 kg
Spring rates	Tunable, to minimize tipoff
Shock	Low shock
Status	Fully qualified, flight-proven heritage

price on request



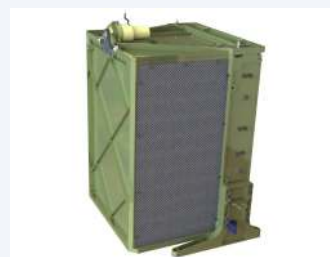
MAVERICK SPACE SYSTEMS

Maverick NLAS Ruggedized 6U Dispenser

Ruggedized 6U dispenser drawing on NASA Ames NLAS heritage, also able to accommodate 2x 3U CubeSats.

Form factor	6U, or 2x 3U CubeSats
CubeSat interface	Rail-type
Design heritage	NASA Ames NLAS
Status	Ruggedized; flight-proven heritage

price on request



MAVERICK SPACE SYSTEMS

Mercury-12T Tab-Based 12U CubeSat Dispenser

12U tab-based CubeSat dispenser delivering over 50% reduction in gRMS environment transmission, available now with flight-proven heritage.

Form factor	12U
CubeSat interface	Tab-type
Vibration attenuation	Over 50% reduction in gRMS environment transmission
Availability	Available now
Status	Flight-proven heritage

price on request



MAVERICK SPACE SYSTEMS

Mercury-16 16U CubeSat Dispenser

16U dispenser for rail-type CubeSats, fully qualified to SpaceX Rideshare levels, available Q1 2025.

Form factor	16U
CubeSat interface	Rail-type
Qualification	Fully qualified to SpaceX Rideshare levels
Availability	Available Q1 2025

price on request



MAVERICK SPACE SYSTEMS

Mercury-3 Lightweight 3U CubeSat Dispenser

3U lightweight CubeSat dispenser qualified to NASA GEVS levels, for rail-type CubeSats, available now.

Form factor	3U
CubeSat interface	Rail-type
Qualification	NASA GEVS qualification levels
Availability	Available now
Status	Flight-proven heritage

price on request



MAVERICK SPACE SYSTEMS

Mercury-6 Lightweight 6U CubeSat Dispenser

6U lightweight CubeSat dispenser qualified to NASA GEVS levels, for rail-type CubeSats, available now.

Form factor	6U
CubeSat interface	Rail-type
Qualification	NASA GEVS qualification levels
Availability	Available now
Status	Flight-proven heritage

price on request



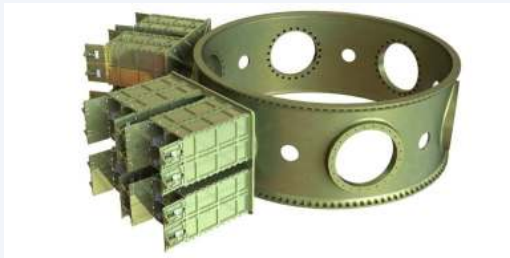
MAVERICK SPACE SYSTEMS

Mercury-6T Tab-Based 6U CubeSat Dispenser

6U tab-based CubeSat dispenser delivering over 50% reduction in gRMS environment transmission, available now with flight-proven heritage.

Form factor	6U
CubeSat interface	Tab-type
Vibration attenuation	Over 50% reduction in gRMS environment transmission
Availability	Available now
Status	Flight-proven heritage

price on request



MAVERICK SPACE SYSTEMS

Rideshare Payload Aggregation Platform

Customized payload aggregation platforms for rideshare missions, built around Maverick dispensers and separation systems.

Application	Rideshare missions
Delivery model	Customized payload aggregation platform
Scope	Up to full stack dispenser solutions
price on request	

Naval Postgraduate School

UNITED STATES · 1 PRODUCT

Naval Postgraduate School Space Systems Academic Group, developer of the NPS CubeSat Launcher (NPSCuL) and multiple military-relevant CubeSat missions.



NAVAL POSTGRADUATE SCHOOL

NPSCuL (NPS CubeSat Launcher)

Multi-CubeSat launch adapter developed by the Naval Postgraduate School, capable of deploying up to 24 CubeSats as a secondary payload on Atlas V and similar launch vehicles.

Type	Multi-CubeSat launch adapter / deployer (P-POD based)
Capacity	Up to 24 CubeSats (1U-equivalent) per launch
Interface	Atlas V Aft Bulkhead Carrier (secondary payload)
Variant	NPSCuL-Lite: 8 P-POD canisters for student thesis integration
Flight heritage	OUTSat, GEMSat missions
price on request	

Nimesis Technology

2008 · 7 PRODUCTS

Nimesis Technology designs and manufactures space actuators and mechanisms using shape memory alloys for satellites, launchers, and other space applications.



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

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

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

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

price on request



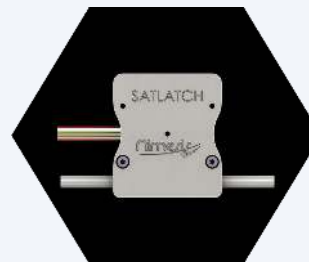
NIMESIS TECHNOLOGY

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

price on request



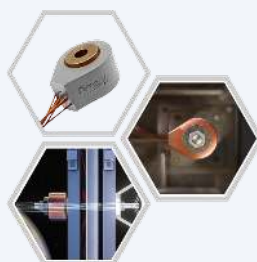
NIMESIS TECHNOLOGY

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

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

price on request



NPC SPACEMIND
SMPOD03-NOIR

The SMPOD03-NOIR is a robust and lightweight CubeSat deployer designed for secure and reliable deployment of 1U, 2U, and 3U CubeSats.

Payload firmly secured	Inside the deployer to prevent rattling during launch
Actuation system	Redundant fail-safe NEA actuation system
Telemetry Feedback	Redundant feedback system for deployment confirmation signals
Integration	Smooth and quick resetting
Materials	Aluminum and carbon fiber for optimized weight

price on request



NPC SPACEMIND
SMPOD16-C

SMPOD16-C is a configurable CubeSat deployer capable of hosting up to 4 CubeSats in standard and XL dimensions, featuring redundant fail-safe actuation and telemetry feedback for r

Robustness	Payload firmly secured inside the deployer to prevent rattling during launch
Actuation Safety	Redundant fail-safe NEA actuation system
Telemetry Feedback	Redundant feedback system for deployment confirmation signals
Integration	Smooth integration and quick resetting
Clearances	Widest clearances on the market

price on request

Orbital Systems

RUSSIA · 2009 · 1 PRODUCT

Russian NewSpace company providing full lifecycle development and production of CubeSat small satellites, deployment systems, and ground control stations.



ORBITAL SYSTEMS
CubeSat Deployment System (TPK)

CubeSat transport-launch containers for 1U–16U form factors with flight heritage on Soyuz-2/Fregat since 2020.

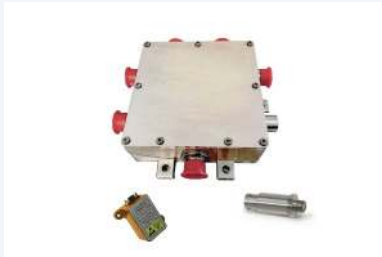
Supported Form Factors	1U, 1.5U, 2U, 3U, 6U, 8U, 12U, 16U
Access Windows	Both sides
Interface	Launch vehicle command-and-telemetry unit
Flight Heritage	Soyuz-2 + Fregat, since 2020
Redundancy	Dual mechanical and electronic systems

price on request

PacSci EMC

UNITED STATES · 1975 · 1 PRODUCT

PacSci EMC designs and manufactures mission-critical pyrotechnic and energetic material devices and integrated systems for aerospace, defense, energy and space applications.



PACSCI EMC

Satellite Payload Release & Sequencing System (PRSS)

The Satellite Payload Release & Sequencing System (PRSS) is a high-reliability, precision timing system for deploying hundreds of satellites with microsecond repeatability and

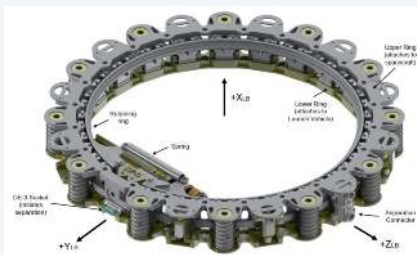
Flight qualified	74 One-Web Satellite Separation
Flight qualified	space SRM Attitude Control/Delta V ignition system for Cubesats
Timing and simultaneity	<1ms
Demonstrated events on one vehicle	Up to 384
Communication options	RS422 (example)

price on request

Planetary Systems Corp (Rocket Lab)

UNITED STATES · 1998 · 3 PRODUCTS

Manufacturer of the Lightband family of spacecraft separation systems and Canisterized Satellite Dispensers, acquired by Rocket Lab in December 2021 and now operating as PSC by Rocket Lab.



PLANETARY SYSTEMS CORP (ROCKET LAB)

Advanced Lightband (ALB)

Lightweight next-generation spacecraft separation system, one-third the weight and half the height of a typical clamp band.

Bolt circle diameters available	8.000", 11.732", 13.000", 15.000", 18.250", 19.848", 23.250", 24.000" (in)
Fastener counts by size	12 to 36 fasteners depending on diameter
Tip-off rate	Tunable to < 1 deg/sec



PLANETARY SYSTEMS CORP (ROCKET LAB)

Canisterized Satellite Dispenser (CSD)

Non-pyrotechnic, fully encapsulated CubeSat/small-satellite dispenser available in 3U, 6U, and 12U sizes with 100% mission success.

Sizes available	3U, 6U, 12U
Mass capability	~2 kg per U
Deployment mechanism	Non-pyrotechnic, fully encapsulated canister
Mounting	Array of mount points, mountable to any face

Separation delta-V	Tunable to < 1.0 in/sec
Integration time	< 30 minutes

[price on request](#)
[datasheet](#)

Flight heritage	100% mission success across flight history
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[price on request](#)
[datasheet](#)



PLANETARY SYSTEMS CORP (ROCKET LAB)
Mark II Motorized Lightband (MLB)

Motorized spacecraft/launch-vehicle separation ring with 100+ on-orbit separations and a 100% flight success record.

Bolt circle diameters available	8.000", 11.732", 13.000", 15.000", 18.250", 19.848", 23.250", 24.000", 31.600", 38.810" (i
Fastener counts by size	12 to 60 fasteners depending on diameter
Max payload capacity	1,200 lb
Release mechanism	Dual-redundant electric release motor, non-pyrotechnic, pyro-pulse compatible
Material	Aluminum alloys

[price on request](#)
[datasheet](#)

Quub (Mini-Cubes)

CANADA · 2018 · 1 PRODUCT

Canadian nanosatellite company developing ultra-compact Mini-Cube satellites with onboard sensors for environmental monitoring, tracking atmospheric changes, and measuring Earth's vital signs from orbit.



QUUB (MINI-CUBES)
Hyperion PocketQube Deployer

Flight-ready PocketQube deployment system supporting 1P–6P missions for launch providers and satellite developers seeking affordable orbit access.

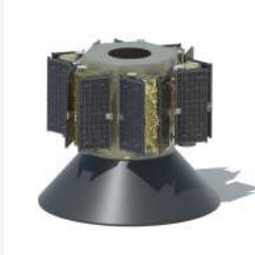
Compatible formats	1P through 6P PocketQube
Applications	Technology demonstration, scientific payloads, commercial constellations, educational miss
Interfaces	Standardized PocketQube interfaces

price on request [datasheet](#)

Redwire Corporation

UNITED STATES · 2020 · 4 PRODUCTS

Redwire is an integrated aerospace and defense company that designs and manufactures advanced technologies for space and defense, including optical imaging, sun sensors, solar arrays, and spacecraft p



REDWIRE CORPORATION

LoFF Low-Shock Separation System

Low-shock frangible separation system delivering significantly reduced pyrotechnic shock versus traditional bolt-cutters, with fully redundant initiation for launch vehicle stage s

Type	Low-shock frangible separation system
Shock Output	Significantly reduced vs. traditional pyrotechnic systems
Redundancy	Fully redundant initiation
Application	Launch vehicle / spacecraft separation
Scalability	Multiple payload mass classes

price on request



REDWIRE CORPORATION

Redwire CubeCone Payload Adapter

Transitional conical ring adapter from Redwire's payload-adapter line that can also accommodate secondary payloads.

Configuration	Transitional ring adapter
Function	Can also accommodate secondary payloads
Product family	Redwire Payload Adapters (with XPOD, LoFF, CubeStack)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

price on request



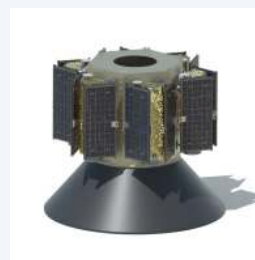
REDWIRE CORPORATION

Redwire CubeStack Payload Adapter

ESPA-class ring adapter from Redwire's payload-adapter line that can hold up to eight 3U CubeSat dispensers.

Configuration	ESPA-class ring adapter
Capacity	Up to 8 3U CubeSat dispensers
Product family	Redwire Payload Adapters (with XPOD, LoFF, CubeCone)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

price on request



REDWIRE CORPORATION

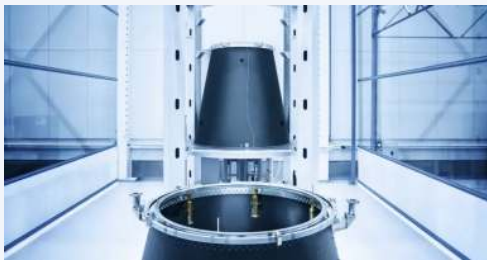
Redwire XPOD CubeSat Deployer

Custom Redwire payload adapter configuration designed to host three XPOD CubeSat dispensers on a single rideshare interface.

Configuration	Custom adapter hosting 3 XPOD CubeSat dispensers
Product family	Redwire Payload Adapters (with LoFF, CubeCone, CubeStack)
Mission heritage	ORS-3, Spaceflight SS0-A, SpaceX Rideshare, Spaceflight GT0-1, SpaceIL Lunar Lander

price on request

Swiss-Swedish space components manufacturer providing satellite structures, thermal control products, payload electronics, and antennas for commercial and institutional programs.



RUAG SPACE
Beyond Gravity Separation Systems

Beyond Gravity offers a range of separation systems, dispenser systems, and modular payload adapters designed to securely connect satellites to launch vehicles and precisely deploy

Flight record	More than 1200 in-orbit separations
Success rate	100%
ESPA Separation System (PSR 1575 mm) compatibility	Evolved Expendable Launch Vehicle (EELV) Secondary Payload Adapter (ESPA)
PAS 381S (15") Separation System compatibility	ESPA 15" adapter interface
PAS 432S (17") Separation System satellite mass	Up to 200 kg @ 0.45 mm

[price on request](#) [datasheet](#)

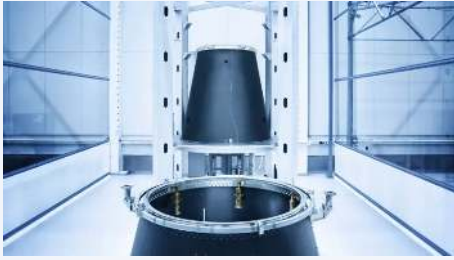


RUAG SPACE
ESPA Separation System (PSR 1575 mm / 62 in)

1575 mm (62 in) low-shock clamp band separation system fully compatible with the EELV Secondary Payload Adapter (ESPA).

Interface diameter	1575 mm (62 in)
Compatibility	EELV Secondary Payload Adapter (ESPA)
Release mechanism	CBOD Low Shock Release Mechanism
Scope of supply	Low shock clamp band separation system, payload separation rings, umbilical connectors, se
Family diameter range	381 mm to 3100 mm (15 to 122 in)

[price on request](#) [datasheet](#)



RUAG SPACE

Modular Payload Adapter Systems

Modular aluminium or carbon-fibre payload adapters compatible with Alpha, Antares, Ariane, Atlas, Delta, Falcon 9/H, New Glenn, Vega C and Vulcan.

Materials	Aluminium or carbon fibre composites
Launch vehicle compatibility	Alpha, Antares, Ariane, Atlas, Delta, Falcon 9/Heavy, New Glenn, Vega C, Vulcan
Separation record	More than 1200 in-orbit separations, 100% success rate
Offering	Off-the-shelf products and tailor-made solutions

[price on request](#) [datasheet](#)



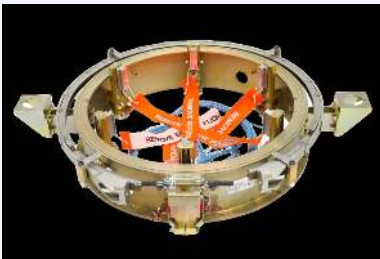
RUAG SPACE

PAS 381S (15 in) Separation System

Smallest member of the low-shock separation system family, developed to fit the ESPA 15 inch adapter interface.

Interface	ESPA 15 in adapter interface
Release mechanism	CBOD-LT Separation System Release Mechanism
Scope of supply	Low shock clamp band separation system, interface rings, umbilical connection, separation
Family diameter range	360 mm to 2624 mm (14 to 103 in)
Flight record	More than 660 in-orbit separations, 100% success rate

[price on request](#) [datasheet](#)



RUAG SPACE

PAS 432S (17 in) Separation System

Low-shock clamp band separation system designed for satellites up to 200 kg at 0.45 mm on the VEGA launch vehicle.

Interface diameter	432 mm (17 in)
First application	Satellites up to 200 kg at 0.45 mm on the VEGA launch vehicle
Release mechanism	CBOD-LT Separation System Release Mechanism
Scope of supply	Low shock clamp band separation system, interface rings, umbilical connection, separation
Flight record	More than 660 in-orbit separations, 100% success rate

[price on request](#) [datasheet](#)



RUAG SPACE

PAS 610S (24 in) Separation System

Low-shock separation system whose load capability is fully compatible with the Moog CSA ESPA and the ESPA Rideshare User's Guide environments.

Interface diameter	610 mm (24 in)
Compatibility	Moog CSA ESPA; ESPA Rideshare User's Guide environments
Release mechanism	CBOD-LT Separation System Release Mechanism
Scope of supply	Low shock clamp band separation system, interface rings, umbilical connection, separation
Flight record	More than 660 in-orbit separations, 100% success rate

[price on request](#) [datasheet](#)



RUAG SPACE

Satellite Dispenser Systems

Multi-satellite dispenser systems combining structure, separation, harness and thermal subsystems, flown on Galileo, Radarsat Constellation and Eutelsat OneWeb.

Subsystems included	Structure, separation system, electrical harness, thermal subsystem
Launch vehicle interface	Dispenser structure bolted to the launch vehicle upper stage
Release	Separation nuts and spring units at each separation node
Harness	Redundant umbilical cables per spacecraft, pyrotechnical initiator harness, instrumentation
Options	Beyond Gravity power and sequencing electronics

[price on request](#) [datasheet](#)



RUAG SPACE

Separation Nut PSM 1/2B

Low-shock separation nut for constellation-class satellites of typically 500-1000 kg, qualified per AIAA S-113-2005.

Target spacecraft class	Constellation class satellites, typically 500-1000 kg
Qualification	AIAA S-113-2005 (former DOD-E-83578A)
Initiators	Dual NSI equivalent (PC23, 103377-191/-449/-500, PD222400024-009, 2-8001140-1, 852420-XX)
Worst-case tests passed	Single 80% initiator, cold case, no o-ring, 150% external load - 100% success
Design feature	Internal mechanical leverage reduces initiator pressure spike and shock; direct drop-in re

[price on request](#) [datasheet](#)



RUAG SPACE

Separation Nut PSM 3/8B

Smallest low-shock separation nut of the family, developed to fit OneWeb-class satellites of typically 100-200 kg.

Target spacecraft class	OneWeb class satellites, typically 100-200 kg
Qualification	AIAA S-113-2005 (former DOD- E-83578A)
Initiators	Dual NSI equivalent (PC23, 103377-191/-449/-500, PD222400024-009, 2-8001140-1, 852420-XX)
Worst-case tests passed	Single 80% initiator, cold case, no internal lube, no o- ring, 150% external load - 100% su
Design feature	Internal mechanical leverage reduces initiator pressure spike and shock; wide thermal oper

[price on request](#) [datasheet](#)

SEOPS

UNITED STATES · 2017 · 4 PRODUCTS

SEOPS (Spaceflight Engineering Operations) is a U.S. launch integration and rideshare services provider offering last-mile delivery to orbit for small satellites and advanced space technologies, including dedicated launch procurement, satel



SEOPS

Equalizer Flex

Streamlined integration hardware for rapid orbital deployment (upcoming product, detailed specifications not yet published).

[price on request](#)

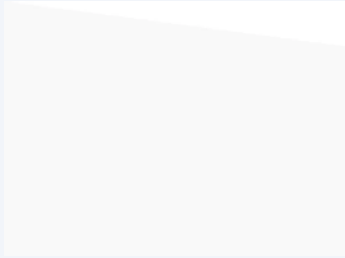


SEOPS

Ghost Trap Deployer

Lightweight, modular payload deployer with shock-absorbing mount options (upcoming product, detailed specifications not yet published).

[price on request](#)



SEOPS Keystone

Keystone is an ultra-streamlined deployer rigorously tested for consistent results under strenuous flight conditions, available in 8", 15", and 24" sizes.

Actuation	Glenair 061-006 HDRM
Material	7072-T6 Aluminum
Height	2.1"
Electronics	Qty 4, 9-Pin Sub-D Connectors
Separation Velocity/Tip Off	Customizable

price on request



SEOPS SlingShot

SlingShot is SEOPS' flagship CubeSat/small-satellite deployer that rides on Northrop Grumman's Cygnus spacecraft, deploying payloads at an altitude above the ISS after Cygnus compl

Deployment capacity	Up to 72U of CubeSats per Cygnus mission
Maximum single payload size	12U CubeSat
Compatible CubeSat formats	1U, 2U, 3U Rail, 6U Rail, 6U Tab, 12U Rail, 12U Tab
Deployment mechanism	Perpendicular deployment
Mounting location	Passive Common Berthing Mechanism (PCBM) face of the Cygnus spacecraft

price on request

Sierra Space

UNITED STATES · 2021 · 1 PRODUCT

US commercial space company; Dream Chaser® cargo spaceplane, LIFE™ inflatable habitat modules, in-space manufacturing, and defense space systems spun off from Sierra Nevada Corporation.



SIERRA SPACE Fast-Acting Shockless Separation Nut (FASN) 30K

The FASN 30K is a space-qualified, low-shock separation nut designed for restraining and releasing preloaded structural joints in satellites and launch vehicles.

Load Rating	5K
Mechanism	Toggle bolt with mechanically redundant latch
Type	Reusable, low-shock

price on request [datasheet](#)

Czech company (Brno) developing non-explosive, rapidly resettable hold-down and release actuators and initiation electronics for ground testing and qualification of spacecraft mechanisms.



SPACERACE S.R.O.
ATLAS Hold Down and Release Actuator

ATLAS is a rapidly resettable non-explosive release actuator designed for ground testing of space mechanisms, offering efficiency, ergonomics, and reliability.

Mechanical interface	User customizable (to match NEA, Glenair, Eaton, Arquimea)
Release bolt thread	User customizable up to M8
Max. release preload	22 kN
Design limit load	33 kN
Mass	270 g (without harness and connector)

[price on request](#) [datasheet](#)



SPACERACE S.R.O.
UNIKA HDRM Preload Device

Compact, electronically-controlled 50 kN preload/tensioning device for Hold Down and Release Mechanisms, cleanroom-safe.

Mechanical interface	User customized mating head
Release bolt thread	User customized up to M10
Generated preload	Up to 50 kN @ max 3 mm travel
Mass	2 kg (without harness and power source)
Preload control	Handheld display, regulation by built-in load cell

[price on request](#) [datasheet](#)

German space company designing, developing and producing solar arrays, laser-optical instruments and space electronics for satellite missions.



SPACETECH GMBH
SpaceTech Pyro Drive Module (Actuator Drive Unit)

Single-point-failure-free actuator drive electronics for triggering thermal knife and non-explosive actuator (NEA) release devices.

Bus interface	Satellite primary power, 28V nominal
Command interface	OBC command & control; NEA fire control including safe- and arming functions
Implementation	Fully realized in hardware without soft- or firmware
Command concept	Safe command concept: pre-arm, arm, fire

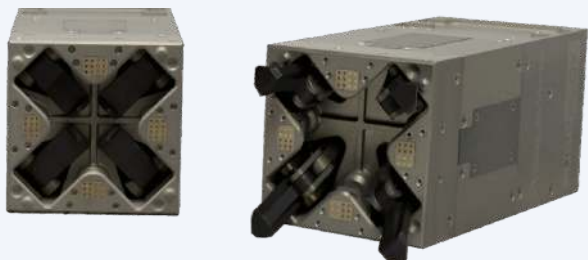
Drive stage	Switched current source to drive the actuators
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price on request

SpaceWorks Enterprises

UNITED STATES · 2000 · 3 PRODUCTS

US aerospace engineering firm designing and building hypersonic reentry capsules, spacecraft docking hardware, in-space propulsion stages, and aerospace design software.



SPACEWORKS ENTERPRISES

FuseBlox Small Satellite Docking Mechanism

2U patented small satellite docking mechanism enabling structural coupling, power transfer, and data transfer between on-orbit spacecraft.

Form factor	2U
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TRL	6
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Functions	Structural docking + power transfer + data transfer
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Heritage	DARPA and AFRL sponsored development
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price on request

SPACEWORKS ENTERPRISES

Nanosat Express Deployment Service

Rideshare and deployment service for 1U-27U nanosatellites and CubeSats, providing affordable access to ISS-deployment orbits.

Size range	1U to 27U CubeSats
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Deployment method	Rideshare / ISS-deployed
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price on request



SPACEWORKS ENTERPRISES

RED-25 Precision Payload Return Capsule

Autonomous 25 kg payload return capsule with guided parafoil precision landing, targeting on-demand cargo return from orbit.

Payload capacity	25 kg
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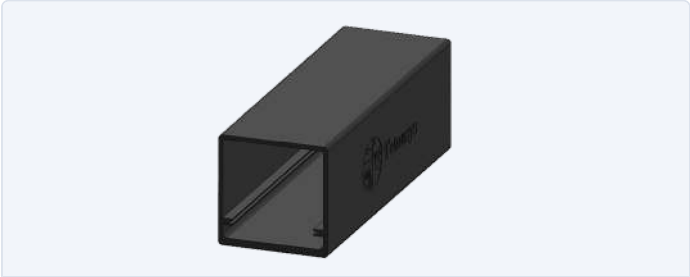
Diameter	1.0 m
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Mass	<120 kg
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Landing	Guided parafoil precision
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price on request

US CubeSat and PocketQube deployer maker at NASA Research Park, Moffett Field CA, founded 2013; composite structures, in-space 3D printing research; Gauss Team launch partner.



TETONSYS

MR-FOD Deployer

3D-printed PocketQube deployer, the standard launcher for PocketQubes on the Italian GAUSS Team UniSat micro-satellite.

Type	PocketQube deployer
Manufacturing method	3D printed
Launch partner platform	Italian GAUSS Team UniSat micro-satellite

price on request



TETONSYS

Teton CubeSat Deployer

Next-generation CubeSat deployer offering greater flexibility for solar panel placement.

Type	CubeSat deployer
Design feature	No corner-capturing / square-section requirement, allowing flexible solar panel mounting

price on request



TETONSYS

Tu-POD Deployer

First-generation Teton deployer fitting inside a standard P-POD to launch PicoSats and PocketQubes.

Type	PicoSat / PocketQube sub-deployer
Host interface	Fits inside a standard P-POD

price on request

UK manufacturer of CubeSat deployers (TPOD) and off-the-shelf standardised satellite buses, also offering FlatSat rental and space engineering advisory services.



THIRD PLANET ORBITAL

TPOD (Third Planet Orbital Deployer)

CubeSat deployer engineered for low mass, fast integration and reduced total cost of ownership, with a TPOD-12XL variant qualified for 12U-XL satellites up to 27.4 kg.

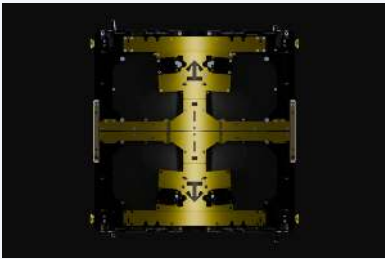
Variant	TPOD-12XL
Mass	<6.75 kg
Satellite Size	12U-XL (226.3±0.1 x 226.3±0.1 x 366±0.3 mm)
Volume Excursions	3 faces (40 mm), 1 face (15 mm), end face (60 mm)
Payload capacity	27.4 kg

price on request [datasheet](#)

TRL Space

CZECH REPUBLIC · 2014 · 1 PRODUCT

Czech mission integrator and space hardware builder behind the CAVE CubeSat deployer, TRONE/CRUSOE EGSE, and the TRACE/TROLL NG/TRULY satellite missions.



TRL SPACE

CAVE Deployer

The CAVE Deployer is a CubeSat deployment system designed for 6U to 16U CubeSats, featuring a redundant HDRM system, deployment telemetry, and customizable rail lengths.

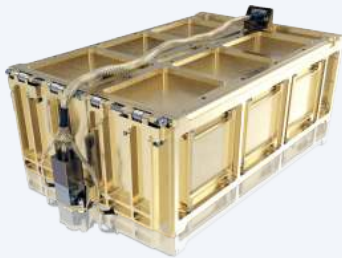
Deploy CubeSats Sizes	6–16 U
Protrusions Size	28 mm
Maximum Lead Times	18 Weeks
Price Starting At	44.9K EUR
Customizable Rail Length	366 mm to 454 mm

from €44 990 [datasheet](#)

Tyvak International S.r.l.

ITALY · 2013 · 1 PRODUCT

Italian manufacturer of CubeSat and small satellite platforms and subsystems, a Terran Orbital company with deep flight heritage across scientific and commercial missions.



TYVAK INTERNATIONAL S.R.L.

CubeSat Dispensers

Deployment dispensers that secure CubeSats to launch vehicles and provide vibration shielding and clean separation.

price on request

UARX Space

SPAIN · 2020 · 2 PRODUCTS

Spanish in-space logistics company; OSSIE rideshare spacecraft, RAMI deployer, and LOLA/LUCAS lunar platforms for non-standard orbit delivery.



UARX SPACE

Reliable and Advanced Mission Injector (RAMI)

RAMI is an advanced satellite deployment system for CubeSats, featuring multiple actuator redundancies and an optional interface for battery charging and communication.

Supported form factors 0.25U, 0.5U, 1U, 1.5U, 2U, 3U, 6U, 12U

Actuator redundancy Multiple redundant actuation lines

Optional interface Battery charging and communication with CubeSat

Mission orbits LEO and interplanetary

price on request datasheet



UARX SPACE

SAU&RON

SAU&RON (Separation Adapter Unit & Ride-ON) is a family of low-shock separation ring systems for small satellites, qualified in 8", 15", and 24" ESPA-compatible interfaces.

Total mass Starting from < 1.4 kg

Ride-ON mass (flyaway) < 0.35 kg

Rocket side ring interface 12 x 1/4 inch bolts, according to the 8-inches ESPA interface (or 12 x M6)

Payload side ring interface 12 x 1/4 inch bolts, according to the 8-inches ESPA interface (or 12 x M6)

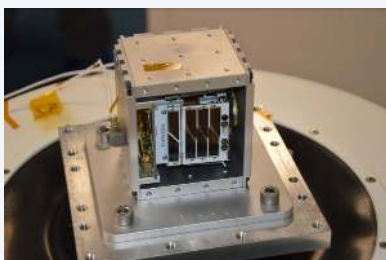
Actuation response time < 100 ms

price on request datasheet

Wyrms Engineering

NETHERLANDS · 2016 · 2 PRODUCTS

PocketQube deployer and vibration test equipment maker, plus mechanical engineering consultancy for small-satellite developers.



WYRM ENGINEERING

1p VibePOD

The 1p VibePOD is a deployer used for qualifying 1P CubeSats, tested to NASA GEVS7000 standards.

Flight Heritage FOSSA 1P for Rocketlab "Running out of fingers" mission in Q4 2019



WYRM ENGINEERING

Claymore 6P PocketQube Deployer

Modular 6P PocketQube deployer with flight-proven release mechanisms for dispensing pico satellites.

Capacity Up to 6P PocketQube

Compatible satellite sizes 1P, 1.5P, 2P, 3P PocketQube

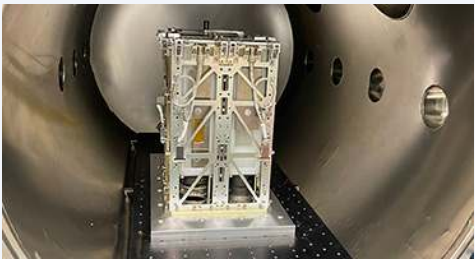
Testing Standards	NASA GEVS7000
price on request	datasheet

Mechanical interface	Meets PocketQube mechanical standard
Envelope clearance	10 mm envelope for larger mechanisms
Design	Modular, adaptable to different release mechanisms
price on request	

Xtenti

UNITED STATES · 2015 · 4 PRODUCTS

Space logistics enabler providing rideshare dispenser and deployer hardware for flexible, responsive small-satellite launches.



XTENTI
FANTM-RAiL

A lightweight, minimalist satellite deployer for payloads up to 60 kg, usable standalone or integrated within a FANTM-RiDE dispenser.

Maximum payload mass	60 kg
Interface types	Railed and tabbed configurations, multiple sizes
Deployment record	100% successful in-space deployment (per manufacturer)
Optional protection	Payload shields and FANTM-CAGE enclosures
Qualification	Thermal vacuum (TVAC) and industry-standard qualification testing

[price on request](#)



XTENTI
FANTM-RAiL Deployer

Lightweight, flight-proven smallsat deployer with railed and tabbed interfaces for payloads up to 60 kg.

Payload capacity	Up to 60 kg
Interface	Railed and tabbed interfaces, multiple industry-standard sizes
Compatibility	Stand-alone on flat launch interface, or containerized inside FANTM-RiDE Dispenser
Optional accessories	FANTM-CAGE enclosures and shields for payload protection during processing and launch
Flight heritage	100% successful in-space deployment record across multiple missions

[price on request](#)



XTENTI

FANTM-RiDE

A containerized, tunable-mass rideshare dispenser enabling rapid payload reconfiguration and hotswap capability up to hours before launch.

Capability	Containerized rideshare payload dispensing
Reconfiguration mode	Rideshare Rapid Reconfiguration (R3) – payload hot-swap without altering dispenser dynamic
Interchange mode	Rapid Dispenser Hotswap (RDH) – common interface across launch vehicles
Flight heritage	Selected for Firefly Aerospace Elytra/Alpha responsive space demonstration supporting NRO

price on request



XTENTI

FANTM-RiDE Dispenser

Rideshare dispenser platform enabling responsive launch integration with hot-swappable payloads and deployers.

Interface	Static mechanical, electrical and dynamic-response launch interface
Containerization	Houses FANTM-RAiL deployers or compatible payload containers
Reconfiguration	Rideshare Rapid Reconfiguration (R3) – hot-swap payloads without altering coupled loads dy
Dispenser interchange	Rapid Dispenser Hotswap (RDH) – common interface for fast Dispenser interchange between 1a

price on request

XTERRA (Arrow Science and Technology)

UNITED STATES · 1989 · 3 PRODUCTS

XTERRA is the satellite deployment systems division of Arrow Science and Technology, building CubeSat dispensers and custom separation systems descended from the Quad-M/Nanoracks deployer heritage.



XTERRA (ARROW SCIENCE AND TECHNOLOGY)

XCD-12U/16U Hybrid

User-convertible large-format CubeSat dispenser supporting 8U, 12U or 16U satellites (227-454mm length) in a single system, with the largest access panels on the market.

Satellite formats supported	8U, 12U, 16U
Max satellite mass - 8U	16 kg
Max satellite mass - 12U	28 kg (higher masses may be considered on request)
Max satellite mass - 16U	32 kg (higher masses may be considered on request)
Satellite length - 8U	227 mm (rail end to rail end)

from \$89 750 [datasheet](#)



XTERRA (ARROW SCIENCE AND TECHNOLOGY)

XCD-3U/6U Hybrid

User-convertible CubeSat dispenser that switches between 1U, 2U, 3U or 6U compatibility in a single patented system, or pairs into an industry-standard Quadpack configuration.

Satellite formats supported (3U tube)	1U, 2U, 3U
Satellite formats supported (6U tube)	2U, 4U, 6U
Max satellite mass - 1U (3U tube)	2.17 kg
Max satellite mass - 2U (3U tube)	4.33 kg
Max satellite mass - 3U (3U tube)	6.50 kg

from \$44 750 [datasheet](#)

XTERRA (ARROW SCIENCE AND TECHNOLOGY)

XTERRA CubeSat Dispenser (XCD) Hybrid

The XTERRA CubeSat Dispenser (XCD) Hybrid is a patented, user-convertible CubeSat dispenser system available in two main configurations: XCD-3U/6U Hybrid and XCD-12U/16U Hybrid, of

Model	XCD-3U/6U Hybrid
Compatibility	User convertible 1U, 2U, 3U or 6U XL
Feature	No need for mass model spacers
Feature	More payload access than any other dispenser
Feature	Patented

price on request [datasheet](#)

Manufacturers in this sector

2NDSpace Srl

Italy · 2023 · 1 product

New Space company designing modular nanosatellite/CubeSat hardware: structures, solar panels, EPS, antennas, OBCs, and deployers/separation systems.

Adaptive Launch Solutions

United States · 2010 · 1 product

Adaptive Launch Solutions (ALS) provides launch integration services and designs adaptive structures and avionics for multi-manifesting pico to small satellites on various launch vehicles.

Alba Orbital

United Kingdom · 2012 · 2 products

Alba Orbital manufactures PocketQube satellites, provides launch and ground station services, and operates a fleet of nighttime imaging satellites for government and commercial clients.

Arquimea

Spain · 2007 · 6 products

Spanish space technology company founded 2007 in Leganes, developing MEMS relay switches, SiC power devices, and miniaturized power conditioning units for satellite applications.

Clutch Space Systems

United Kingdom · 2018 · 1 product

Clutch Space Systems develops software-defined ground station solutions that dramatically reduce the cost and complexity of satellite communications, enabling ground operators to multiply ca

DALRO Aerospace

South Korea · 2023 · 1 product

South Korean manufacturer of satellite deployers (CubeSat/small-satellite dispensers) and provider of launch integration services.

Dcubed

Germany · 5 products

German manufacturer of space deployables using patented Shape Memory and Origami technologies — release actuators, solar arrays, and antenna deployables for CubeSats and microsatellites.

Dhruva Space

India · 2012 · 2 products

Dhruva Space is an Indian space technology company founded in 2012, providing satellites, Earth stations, and launch services as integrated or individual solutions.

Ensign-Bickford Aerospace & Defense (EBAD)

United States · 27 products

US manufacturer of non-explosive actuators (TiNi FrangiBolt, pin pullers, ejectors) and energetic hold-down and release systems.

EXA (Astro-und Feinwerktechnik)

Germany · 1993 · 3 products

German manufacturer of reaction wheels, CubeSat picosatellite deployers, and AOCS components for small satellites, based in Berlin-Adlershof.

Exolaunch

Germany · 2008 · 6 products

Berlin-based launch and deployment services company providing end-to-end rideshare missions, satellite integration, and proprietary separation hardware for small satellites.

GAUSS Srl

Italy · 2012 · 1 product

Italian company specializing in complete lifecycle management of CubeSats and NanoSatellites: design, manufacturing, subsystems, ground stations and deployers.

Glavkosmos

Russia · 1985 · 7 products

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

Gran Systems

United States · 1 product

System integrator and manufacturer of CubeSat structures, buses, and MyPOD test/transport pods, with space environment test equipment services.

Innovative Space Logistics

Netherlands · 2006 · 4 products

ISISPACE provides launch services, manufactures CubeSat deployers and other launch equipment, and acts as a satellite systems integrator for small satellites.

ISISPACE Group

Netherlands · 2006 · 7 products

CubeSat deployers, antennas, EPS and small-satellite systems.

Kairo Space

South Korea · 1 product

South Korean nanosatellite manufacturer offering CubeSat platforms, optical imagers, star trackers, solar panels, EPS, structures, and deployers for the commercial small satellite market.

KOSMOLAB Launch Services

Russia · 2018 · 17 products

CubeSat & small-satellite rideshare brokerage — integration, paperwork, launch insurance on PSLV, Falcon 9 Transporter, Ariane 6 and Soyuz.

Maverick Space Systems

United States · 2019 · 11 products

End-to-end small satellite launch integration and mission management for university, government, and commercial customers; San Luis Obispo, CA.

Naval Postgraduate School

United States · 1 product

Naval Postgraduate School Space Systems Academic Group, developer of the NPS CubeSat Launcher (NPSCuL) and multiple military-relevant CubeSat missions.

Nimesis Technology

2008 · 7 products

Nimesis Technology designs and manufactures space actuators and mechanisms using shape memory alloys for satellites, launchers, and other space applications.

NPC Spacemind

2013 · 2 products

NPC Spacemind designs and manufactures CubeSat separation systems, deployers, and subsystems, including deorbiting systems, for nanosatellites and CubeSats.

Orbital Systems

Russia · 2009 · 1 product

Russian NewSpace company providing full lifecycle development and production of CubeSat small satellites, deployment systems, and ground control stations.

PacSci EMC

United States · 1975 · 1 product

PacSci EMC designs and manufactures mission-critical pyrotechnic and energetic material devices and integrated systems for aerospace, defense, energy and space applications.

Planetary Systems Corp (Rocket Lab)

United States · 1998 · 3 products

Manufacturer of the Lightband family of spacecraft separation systems and Canisterized Satellite Dispensers, acquired by Rocket Lab in December 2021 and now operating as PSC by Rocket Lab.

Quub (Mini-Cubes)

Canada · 2018 · 1 product

Canadian nanosatellite company developing ultra-compact Mini-Cube satellites with onboard sensors for environmental monitoring, tracking atmospheric changes, and measuring Earth's vital sign

Redwire Corporation

United States · 2020 · 4 products

Redwire is an integrated aerospace and defense company that designs and manufactures advanced technologies for space and defense, including optical imaging, sun sensors, solar arrays, and sp

RUAG Space

Switzerland · 1993 · 9 products

Swiss-Swedish space components manufacturer providing satellite structures, thermal control products, payload electronics, and antennas for commercial and institutional programs.

SEOPS

United States · 2017 · 4 products

SEOPS (Spaceflight Engineering Operations) is a U.S. launch integration and rideshare services provider offering last-mile delivery to orbit for small satellites and advanced space technolog

Sierra Space

United States · 2021 · 1 product

US commercial space company; Dream Chaser® cargo spaceplane, LIFE™ inflatable habitat modules, in-space manufacturing, and defense space systems spun off from Sierra Nevada Corporation.

SPACERACE s.r.o.

Czech Republic · 2022 · 2 products

Czech company (Brno) developing non-explosive, rapidly resettable hold-down and release actuators and initiation electronics for ground testing and qualification of spacecraft mechanisms.

SpaceTech GmbH

Germany · 2004 · 1 product

German space company designing, developing and producing solar arrays, laser-optical instruments and space electronics for satellite missions.

SpaceWorks Enterprises

United States · 2000 · 3 products

US aerospace engineering firm designing and building hypersonic reentry capsules, spacecraft docking hardware, in-space propulsion stages, and aerospace design software.

Tetonsys

United States · 2013 · 3 products

US CubeSat and PocketQube deployer maker at NASA Research Park, Moffett Field CA, founded 2013; composite structures, in-space 3D printing research; Gauss Team launch partner.

Third Planet Orbital

United Kingdom · 2023 · 1 product

UK manufacturer of CubeSat deployers (TPOD) and off-the-shelf standardised satellite buses, also offering FlatSat rental and space engineering advisory services.

TRL Space

Czech Republic · 2014 · 1 product

Czech mission integrator and space hardware builder behind the CAVE CubeSat deployer, TRONE/CRUSOE EGSE, and the TRACE/TROLL NG/TRULY satellite missions.

Tyvak International S.r.l.

Italy · 2013 · 1 product

Italian manufacturer of CubeSat and small satellite platforms and subsystems, a Terran Orbital company with deep flight heritage across scientific and commercial missions.

UARX Space

Spain · 2020 · 2 products

Spanish in-space logistics company; OSSIE rideshare spacecraft, RAMI deployer, and LOLA/LUCAS lunar platforms for non-standard orbit delivery.

Wyrn Engineering

Netherlands · 2016 · 2 products

PocketQube deployer and vibration test equipment maker, plus mechanical engineering consultancy for small-satellite developers.

Xtenti

United States · 2015 · 4 products

Space logistics enabler providing rideshare dispenser and deployer hardware for flexible, responsive small-satellite launches.

XTERRA (Arrow Science and Technology)

United States · 1989 · 3 products

XTERRA is the satellite deployment systems division of Arrow Science and Technology, building CubeSat dispensers and custom separation systems descended from the Quad-M/Nanoracks deployer

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