

NEWSPACE MARKET · COMPANY PROFILE



RUAG Space

Switzerland · founded 1993 · beyondgravity.com

52

PRODUCTS

43

WITH DATASHEETS

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as of 20 August 2026



RUAG Space

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

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

PRODUCTS

Product catalogue



RUAG SPACE

APPMAX2 Electric Propulsion Pointing Mechanism

Low-cost, easy-to-integrate 2-axis thruster gimbal for electric propulsion, supporting 1 to 5 kW thrusters within a 15 degree pointing cone.

Axes	2-axis pointing mechanism
Thruster power range	1 to 5 kW
Pointing range	15 degree cone
Integration	Simple integration without zero gravity devices
Variants	APPMAX2-H (50 kg thruster, with hold-down and release mechanism), APPMAX2-S (downscaled, i
Thruster types supported	Hall effect and ion thrusters

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datasheet



RUAG SPACE

APPMAX3 Deployable Thruster Pointing Mechanism

Modular deployable 3-axis thruster gimbal driven by three stepper-motor actuators, with micrometeorite-shielded piping and zero-G device.

Actuation	Three stepper motor-based actuators
Configuration	Modular deployable thruster mechanism with robotic arm deployment
Protection	Micrometeorite shielding on piping; thermal and micrometeorite protection for actuators
Thermal control	Flow controller with radiators and/or MLI per thermal analysis
Mounting	Direct hard mounting baseline; elastomer dampers optional
Position reference	Redundant switches; zero-G device provided

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datasheet

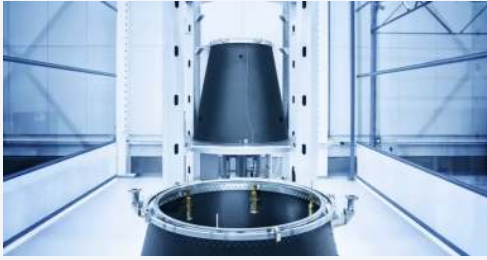


RUAG SPACE

Ariane 5 / Ariane 6 Structural Components and VESPA Satellite Adapter

Beyond Gravity (formerly RUAG Space) is a Swiss-Swedish space technology company providing structural components, avionics, and satellite dispenser systems for European launchers a

price on request



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
PAS 432S (17") Separation System launch vehicle	VEGA
PAS 610S (24") Separation System compatibility	Moog CSA ESPA and Rideshare User's Guide

price on request datasheet



RUAG SPACE

CODE+ Software Defined Drive Electronics

Software-defined drive electronics with a radiation-tolerant microcontroller, expanded sensing and in-orbit software patching.

Architecture	Fully software-defined, radiation-tolerant microcontroller
Command interface	Dual UART; CCSDS command and telemetry packets
Optional extension boards	Signal multiplexing, MIL-STD-1553B communication interface
Sensing	Direct acquisition of analog and digital sensor inputs (motor current, position indicators)
Software maintenance	In-orbit software patching
Form factor	Compact, stackable (same as CODE)

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RUAG SPACE

Compact Frequency Converters and Receivers for FSS/BSS Payloads

Modular C-, Ku- and K-band frequency converters and receivers for telecom payloads, using MMIC and hermetic LTCC hybrid miniaturization.

Frequency plans	C to C, C to Ku, Ku to C, Ku to Ku, K to Ku band
Cross links	Supported between C- and Ku-band
Technology	MMIC and hermetic LTCC hybrid miniaturization
Interfaces	Configurable DC-power and TM/TC interfaces
Application	FSS/BSS telecom payloads

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RUAG SPACE

Composite Payload Fairings

Composite payload fairings from 0.7 m to 5.4 m diameter, used on Ariane, Vega, Atlas, Vulcan and H3, with a 100% success rate over 400+ launches.

Diameter range	0.7 m to 5.4 m
Construction	Aluminium honeycomb core with carbon fibre reinforced composite cover layers
Manufacturing	Automated industrial process, no autoclave required
Flight record	Over 400 launches, 100% success rate
Launch vehicles	Ariane, Vega, Atlas, Vulcan, H3
Launch site support	Separation dynamics measured, transmitted to ground control and analysed

[price on request](#)



RUAG SPACE

Conductive Glass Fabric High-Temperature Vacuum Insulation

Flexible high-temperature vacuum insulation for launchers up to 550 degrees C, free of hazardous components and tunable to customer requirements.

Maximum temperature	Up to 550 degrees C
Type	High temperature vacuum insulation, conductive glass fabric
Advantages over ceramic fabrics	Greater flexibility, no hazardous components, adjustable performance

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RUAG SPACE

Constellation On Board Computer (cOBC)

Fully redundant on-board computer subsystem built entirely from commercial components, with integrated GNSS receiver and platform/payload interfaces.

Architecture	Complete subsystem based entirely on commercial components
Redundancy	Fully redundant, flight-proven FDIR
Integrated functions	On-board processing, GNSS receiver, ground communication, platform and payload interfaces
Optional boards	PDIO (analogue interfaces, magnetorquers, thermistors, stepper motors incl. SADE), PROPE (

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RUAG SPACE

Constellation Remote Terminal Unit (cRTU)

Customizable remote terminal unit bridging the on-board computer and platform electronic interfaces, based on the same COTS I/O boards as the cOBC.

Function	Bridge between On-Board Computer and platform electronic interfaces
Board commonality	Same commercial I/O boards as the cOBC
Customization	Additional modifications and new board types available on request

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RUAG SPACE

COOLCAT Cryogenic Superinsulation

Multi-layer vacuum superinsulation line for cryogenic applications, laser-cut to shape, with polyester, aluminium-foil, LOX-compatible and tape variants.

COOLCAT 2 NW	10 layers double-sided aluminized perforated polyester foil interleaved with 10 layers of
COOLCAT 2 NF	Glass fibre fleece spacer with 9 micrometre pure aluminium foil; high temperature tolerant
COOLCAT 2 LOX	5 layers pure aluminium foil with 5 layers glass fibre cloth spacer; liquid oxygen compatible
COOLCAT 2 NI	Polyester foil aluminized in squares (10x10 mm single-sided or 20x20 mm double-sided) with
COOLCAT H	Welding protection of aluminium foil and fibre-glass cloth
COOLCAT 4K	Low absorptance helium vessel laminate: 6 micrometre pure aluminium foil plus 12 micrometre
COOLCAT 1050	80 micrometre high purity (99.5%) aluminium foil tape with pressure sensitive acrylic adhesive

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RUAG SPACE

Core Drive Electronics (CODE)

Compact, lightweight two-axis stepper motor controller for small satellite mechanisms, built as stackable modules.

Type	Two-axis stepper motor controller, modular and stackable
Motors per module	Two bipolar stepper motors, independently controlled
Redundancy	Two modules stacked vertically, cold redundancy
Power conversion	Isolated DC/DC converter with EMC filters, hardware-adjustable motor drive voltage
Mechanism signals	7 additional signals per motor connector for sensors (switches, thermistors) or heaters up
Motor control interface	3 discrete signals ENABLE / DIRECTION / STEP per motor

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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)
Flight record	More than 1600 in-orbit separations, 100% success rate (June 2026)

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RUAG SPACE

Flexible Thermal Protection for Launchers

Coated or laminated ceramic fabric and ceramic felt insulation protecting components near rocket motors and nozzles at up to 1500 degrees C.

Maximum temperature	Up to 1500 degrees C
Materials	Coated or laminated ceramic fabric and ceramic felt insulators
Application	Components in direct vicinity of rocket motors or nozzles

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RUAG SPACE

FoX Electronics Platform

3U SpaceVPX modular avionics platform (Flexible On-board avioniX) of off-the-shelf modules for LEO, MEO, GEO and cislunar missions.

Form factor	3U SpaceVPX modular platform
Target orbits	LEO, MEO, GEO and cislunar
Communication	Ethernet-based, supporting redundancy and high data rates
Applications	Spacecraft control, edge/payload processing, payload and robotics control, GNSS receiver,

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RUAG SPACE

FoX NavRIX GEO GNSS Receiver

Cost-efficient, optionally redundant software-defined GNSS receiver for commercial GTO/GEO missions, accurate to below 10 m 3D rms.

Constellations	GPS, Galileo
Target orbits	GTO / GEO
On-board navigation accuracy	Below 10 m 3D rms
Mission duration	Up to 15 years
Architecture	Software-defined radio (SDR); redundant or non-redundant configuration

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RUAG SPACE

FoX NavRIX GNSS Receiver

Next-generation multi-frequency, multi-constellation GNSS receiver built on commercial components, with optional subscription-free PPP.

Supported GNSS signals	GPS L1 C/A, GPS L2C, GPS L5 I/Q, Galileo E1 B/C, Galileo E5a I/Q, Galileo E6 B/C (optional)
On-board position accuracy	< 1.0 m 3D rms
On-board velocity accuracy	< 2 mm/s 3D rms
Time accuracy	< 50 ns (1 sigma)
Position accuracy with PPP (Galileo-only)	< 0.2 m 3D rms
Velocity accuracy with PPP (Galileo-only)	< 1 mm/s 3D rms
Time accuracy with PPP (Galileo-only)	< 30 ns (1 sigma)

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RUAG SPACE

FoX Payload Processor

High-performance processing unit for payloads, instruments and robotics, with scalable software and gateway processing.

Function	Control and data processing for payloads, instruments and robotics
Processing	Software and gateway processing, scalable to processing and storage needs
Platform	Part of the FoX Electronics Platform (3U SpaceVPX)

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RUAG SPACE

GEORIX GNSS Receiver

Multi-constellation GNSS receiver for GTO/GEO missions with better than 20 m on-board real-time navigation accuracy in GEO.

Supported GNSS signals	GPS C/A on L1, Galileo E1 B/C
Signal processing hardware	Dedicated RF and Mixed-Signal ASICs plus AGGA-4 ASIC
Position accuracy in GEO	20.0 m 3D rms
Velocity accuracy in GEO	1 cm/s 3D rms
Time offset 1PPS (1 sigma)	< 0.5 microseconds
Tracking capacity	Single-frequency up to 12 satellites

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RUAG SPACE

GSE Clampband

Ground support equipment clampband connecting spacecraft interface rings to test adapters during AIT, in PAS 937 S, 1194 VS and 1666 MVS sizes.

Clampband PAS 937 S	Manufactured per Ariane 5 User's Manual (Issue 5 Rev 2), Soyuz User's Manual (Issue 2 Rev 2)
Clampband PAS 1194 VS	Manufactured per Ariane 5 User's Manual (Issue 5 Rev 2) and Soyuz User's Manual (Issue 2 Rev 2)
Clampband PAS 1666 MVS	Manufactured per Ariane 5 User's Manual (Issue 5 Rev 2) and Soyuz User's Manual (Issue 2 Rev 2)
Units delivered	More than 50 GSE clampbands
Services	In-house proof load testing without dummy equipment

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RUAG SPACE

Ka-band Compact Frequency Receiver and Converter

Compact Ka-band payload receiver and converter with internal LO generation and EPC for most satellite bus standards.

Band	Ka-band payloads
Local oscillator	Internal L0 generation; adaptable to L0 frequencies up to 12 GHz
Power conditioning	Integrated EPC for most satellite bus standards
Technology	Latest MMIC technologies

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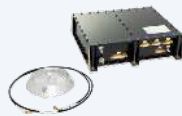
RUAG SPACE

Ka-band Low Noise Amplifier (LNA)

Space-qualified Ka-band LNA covering 27.5 to 31 GHz, built on mHEMT MMIC technology, available as single slice or multipack.

Frequency coverage	27.5 to 31 GHz (full Ka-band)
Technology	mHEMT MMIC
Configurations	Single LNA (Slice) with secondary DC power, or Multipacks up to Quad-packs with secondary
Interfaces	Configurable DC-power and TM/TC interfaces
Heritage	Beyond Gravity LNAs have accumulated over 10,000 years of operational time in orbit

price on request [datasheet](#)



RUAG SPACE

LEORIX GNSS Receiver

Multi-constellation single-frequency GNSS receiver for LEO with on-board real-time navigation accuracy below one metre.

Supported GNSS signals	GPS L1 C/A, Galileo E1 B/C
On-board position accuracy	1.0 m 3D rms
On-board velocity accuracy	2 mm/s 3D rms
Time offset 1PPS (1 sigma)	< 50 ns (typ. 25 ns)
Tracking capacity	Single-frequency up to 12 satellites

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RUAG SPACE

Low-Cost Actuator 15 (LA15)

Hybrid stepper actuator with high unpowered detent torque, planetary gear and high-load output bearings for electric propulsion pointing mechanisms.

Motor type	Hybrid-type stepper motor with high detent torque
Gear	Planetary gear
Bearings	High-load output bearings
Unpowered behaviour	High unpowered detent torque; holds pointing position under high back-driving torques
Design basis	Beyond Gravity modular actuator system
Application	Electric propulsion pointing mechanisms (EPPM)

price on request



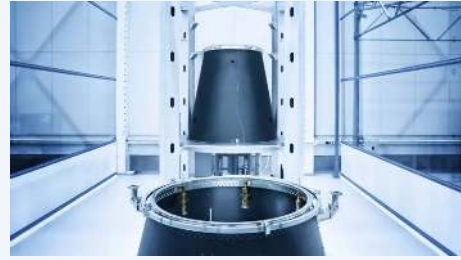
RUAG SPACE

Master Local Oscillator (MLO) for Telecom Payloads

Dual-redundant master local oscillator for telecom payloads with compact design for 7 to 13 GHz output.

Output frequency	7 to 13 GHz
Redundancy	Dual-redundant
Heritage	L0 from Beyond Gravity Converters and Receivers
Interfaces	Configurable output frequencies, DC and TM/TC interfaces; compatible with most satellite b

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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

MPT-G Multi-Purpose Trolley Giga

Tiltable and rotatable MGSE trolley supporting spacecraft during horizontal or vertical integration, with a full set of EC safety interlocks.

Motion	Table tilts and rotates to any attitude between spin axis vertical and horizontal
Spacecraft interface	Transport and Handling Adapter (THA) or other test adapters
Materials	Aluminium alloy or carbon steel
Safety	EC-compliant interlocks: no rotating while tilting, no tilting while rotating, key-switch
Units delivered	Over 80 Multi-Purpose Trolleys in Europe and the USA

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



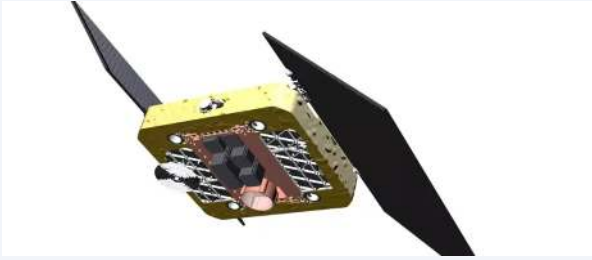
RUAG SPACE

Multi-Purpose Drive Electronics (MPDE)

High-performance two-axis stepper motor controller for satellite mechanisms, optimized for low micro-vibration operation.

Type	Two-axis stepper motor controller
Redundancy	Two electrically identical units for cold redundancy
Command interface	MIL-STD-1553 TC/TM (replaceable to suit platform concept)
Power conversion	Isolated DC/DC converter per unit; available for different power bus voltages
Driven mechanisms	Antenna pointing mechanisms, solar arrays, thruster pointing mechanisms
Optimization	Low micro-vibration operation

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



RUAG SPACE

Multipurpose Satellite Platform

Payload-agnostic 150-250 kg LEO platform with electric propulsion, ~1 kW power, low-drag profile and stackable multi-launch configuration.

Total mass	150-250 kg
Power	Designed with 1 kW and more
Lifetime	Approximately 7 years in LEO
Internal payload bay	1000 mm x 170 mm x 470 mm
Additional payload volume	In +Z and -Y directions
Propulsion	Electric propulsion
Launch configuration	Stackable for multi-launch; compatible with heritage and new small launchers

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



RUAG SPACE

NavRIX Integral GNSS Receiver

GNSS receiver function integrated into Beyond Gravity's next-generation on-board computer (cOBC), needing only an external antenna.

Supported GNSS signals	GPS L1 C/A, Galileo E1 B/C
On-board position accuracy	1.0 m 3D rms
On-board velocity accuracy	25 mm/s 3D rms
Time accuracy (1 sigma)	< 100 ns
Integration	GNSS function embedded in Beyond Gravity cOBC; only external hardware is the antenna

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RUAG SPACE

Next Generation On Board Computer (OBC NG)

Radiation-hardened satellite on-board computer built around the Beyond Gravity CREOLE chip with fault-tolerant SPARC V8 processor.

Core ASIC	Radiation-hardened CREOLE chip developed by Beyond Gravity
Processor	Fault-tolerant SPARC V8
Integrated functions	Communication functions, reconfiguration function, mass memory controller, extension possi

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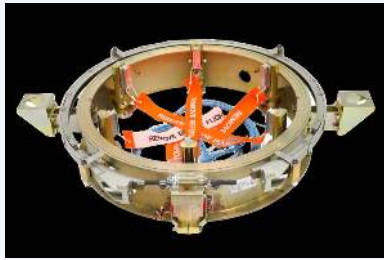
RUAG SPACE

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

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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

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RUAG SPACE

PODRIX GNSS Receiver

High-performance spaceborne GNSS receiver with real-time navigation below 20 cm and Precise Orbit Determination to a few centimetres.

Supported GNSS signals	GPS L1 C/A, GPS L2C, GPS L5 I/Q, Galileo E1 B/C, Galileo E5a I/Q, Galileo E6 B/C (optional)
On-board position accuracy	< 1.0 m 3D rms
On-board velocity accuracy	< 2 mm/s 3D rms
Time accuracy	< 50 ns (1 sigma)
Position accuracy with PPP (Galileo-only)	< 0.2 m 3D rms
Velocity accuracy with PPP (Galileo-only)	< 1 mm/s 3D rms
Tracking capacity	Dual-frequency up to 18 satellites, single-frequency up to 24 satellites

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RUAG SPACE

Remote Terminal Unit (RTU)

Fully redundant remote terminal unit bridging the on-board computer and platform and payload electronic interfaces.

Redundancy	Fully redundant
Function	Bridge between OBC and platform/payload electronic interfaces
Supported functions	Standard I/O, APCS, propulsion

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RUAG SPACE

SARA21 General Purpose Rotary Actuator

Compact, back-drivable general purpose rotary actuator with more than 110 units in space since 2005 and a simple stepper motor interface.

Units in space	More than 110; first flight 2005
Production capacity	Up to 50 units per year; in continuous production for 20 years
Interface	Simple stepper motor interface
Mechanical	High torque capacity, safely back-drivable
Typical application	Antenna pointing (other applications possible)
Configuration	Actuator housing, rotating interface, mounting interface, cabling, optional end stop

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
Programme heritage	Galileo, TerraBella, Radarsat Constellation, Amazon Leo, Eutelsat OneWeb

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RUAG SPACE

Satellite Multi-Layer Insulation (MLI)

Custom satellite MLI blankets for 1 K to 1800 K, with MMOD and ATOX protection options, produced for over 800 satellites.

Temperature range	1 K to 1800 K
Protection options	MMOD (micrometeoroid orbital debris) and ATOX (atomic oxygen)
Design process	Electronic 3D models; 3D mock-ups and template fit-checks for complex shapes
Related products	Interfillers, sensors and heaters, thermal analysis and correlation services
Heritage	MLI for over 800 satellites across 50 space projects; Euclid, Juice, BepiColombo, Eutelsat
Production site	Berndorf, Lower Austria

[price on request](#)



RUAG SPACE

Satellite Structure Panels

High-performance honeycomb panels with aluminium or carbon-reinforced face sheets, produced on an industrialized line including a US site in Titusville.

Panel construction	Honeycomb panels with aluminium or carbon-reinforced face sheets
Configurable parameters	Panel thickness, face sheet material, core density
Production sites	Includes highly automated US site in Titusville, Florida
Insert technology	Automated potting of patented GreDom inserts
Flight heritage	Over 650 OneWeb satellites

[price on request](#)

[datasheet](#)



RUAG SPACE

Satellite Transport and Shipping Containers

Pressurized and non-pressurized spacecraft containers with thermal control, dynamic damping and air filtering, certified for air transportation.

Container types	Hat-off, tilt-lid, door-type roll-in, large An124-compatible, constellation-type
Thermal control	Full active and passive thermal control
Environmental control	Air filtering and drying or N2 purging
Constellation container temperature	19-25 degrees C during operation, -40 to 45 degrees C during transport
Constellation container humidity	Below 65% relH during operation, up to 100% relH during transport
Depressurization	IATA-compliant: breathing units for normal transport, burst discs for emergency
Units delivered	Over 60 spacecraft containers in Europe and the US

price on request



RUAG SPACE

SCO-M Spacecraft Container Mega

Large-format spacecraft transport container from Beyond Gravity's spacecraft container line, for the biggest geosatellites and deep space spacecraft.

Product line	Beyond Gravity spacecraft containers (SCO)
Thermal control	Full active and passive thermal control
Environmental control	Air filtering and drying or N2 purging
Transport modes	Road, air, long-term storage; certified for air transportation on a wide range of aircraft

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RUAG SPACE

Sentinel-2 Satellite Structure

RUAG Space (now Beyond Gravity) is one of Europe's leading suppliers of satellite structures and payload fairings. For the ESA Copernicus Sentinel-2 Earth observation satelli

price on request



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

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[datasheet](#)



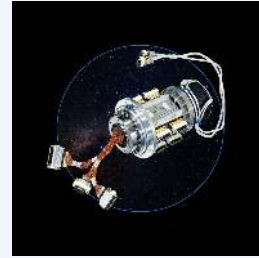
RUAG SPACE

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

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RUAG SPACE

SEPTA36 Solar Array Drive Mechanism

Fully qualified high-power Solar Array Drive Mechanism from Beyond Gravity's modular SADM family, qualified for LEO and GEO missions.

Type	Solar Array Drive Mechanism (high power class)
Qualification	Fully qualified; qualified for LEO and GEO missions
Slip ring	In-house gold-on-gold slip ring technology
Modularity	Interfaces remain the same regardless of power class
Assembly	Actuator part, slip ring with connectors, customizable solar array connectors, motor and s
Availability	Rolling stock for short lead times

price on request [datasheet](#)



RUAG SPACE

SEPTA36G Solar Array Drive Mechanism

Fully qualified Solar Array Drive Mechanism variant of the modular SEPTA family for demanding missions.

Type	Solar Array Drive Mechanism (high power class, demanding missions)
Qualification	Fully qualified; qualified for LEO and GEO missions
Slip ring	Flight proven in-house slip ring technology
Modularity	Interfaces remain the same regardless of power class
Assembly	Actuator part, slip rings with connectors, customizable solar array connectors, motor and
Availability	Rolling stock for short lead times

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



RUAG SPACE

SEPTA42 Solar Array Drive Mechanism

Constellation SADM for small satellites, produced at up to 18 units per month with more than 100 flight models already delivered.

Target application	Small satellites and constellations
Production rate	Up to 18 units per month
Units delivered	More than 100 flight models
Qualification status	TRL8 completed for all variants; TRL9 by projected launch end of 2025
Power transfer options	One or two gold-on-gold slip rings, or cable wrap
Lead time	Rolling stock for lead times of 12 months
Drive electronics	Proven combinations with SADE drive electronics available

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RUAG SPACE

Slice Frequency Converter for Ka-Band Payloads

Lightweight modular Ka-band slice converter (30 GHz to 20 GHz) with external LO and EPC configuration for space-constrained payloads.

Conversion	30 GHz to 20 GHz (Ka-band)
Architecture	External LO and EPC configuration; modular and scalable
Technology	Latest MMIC technologies
Power	Low DC power consumption

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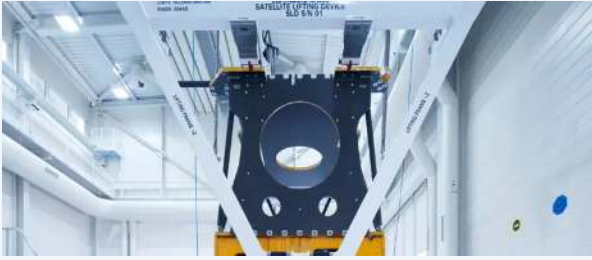
RUAG SPACE

Slip Rings for Space Applications

Custom and modular space slip rings for solar array drives, payloads and limited-angle actuators, with over 2,000 cumulative years of flight time.

Product families	SADA/SADM slip rings, payload slip rings, limited angular rotational actuator slip rings
Modular ranges	C-Series cylindrical modules, P-Series planetary modules (stackable)
Power classes	Below 3 kW to above 30 kW
Contact technology	Gold-on-gold
Flight heritage	Over 2,000 cumulative years of flight time; 100% mission success rate
Experience	Over 60 years

[price on request](#)



RUAG SPACE

Spacecraft Lifting Devices

Electrical or manual lifting devices for instruments and spacecraft of all sizes, with fixed or convertible hoisting axis and optional CoG adjustment.

Actuation	Electrical or manual
Hoisting axis	Fixed, or convertible between horizontal and vertical configuration
Options	Remote control for lifting, centre-of-gravity adjustment
Range	From small instruments to very large spacecraft

price on request



RUAG SPACE

Vega-C Payload Fairing

Beyond Gravity (formerly RUAG Space, rebranded in 2022) designs and manufactures payload fairings for European launch vehicles. For Vega-C, Beyond Gravity delivers the 2.6-metre di

price on request

Contact RUAG Space

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/beyond-gravity/>

<https://www.beyondgravity.com>