

PRODUCT & SERVICES CATALOG

Deployers · Deployment Systems · Launch Service

Space reliability with transparent pricing

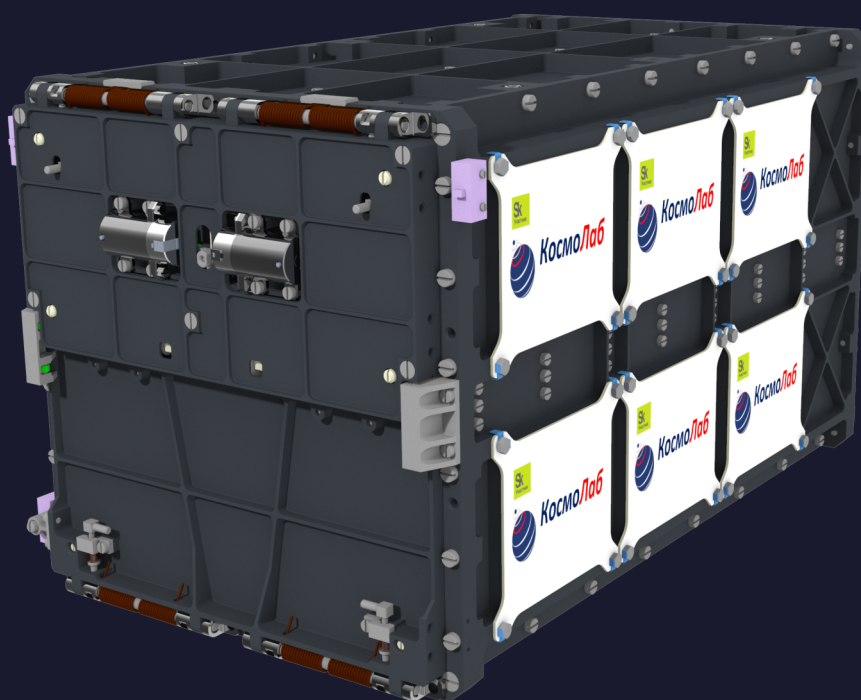


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About Company

"KosmoLab" LLC is a Russian engineering company and a resident of the Skolkovo Innovation Center. We design and manufacture deployers, deployment systems, and deployment sequencers for small satellite orbit delivery.

Our products are compatible with Russian and international launch vehicles: Soyuz, Angara, PSLV, CZ, Kuaizhou, and others. We provide a full range of launch services — from documentation and licensing to post-launch monitoring.

10+

years of space technology development experience

1

successful orbital launch (Angara-A5)

10

scheduled launches

2

CubeSats 3U and 6U deployed to orbit

Skolkovo Innovation Center Resident

Successful Launch

11.04.2024

Angara-A5 / Orion Upper Stage KosmoLab First Orbital Launch

On April 11, 2024, the KosmoLab deployer with deployment sequencer was successfully delivered to orbit by the Angara-A5 launch vehicle with the Orion upper stage.

All KosmoLab systems performed nominally — the first CubeSat deployment (3U Gagarinets) has been completed.

Our products are developed using domestic components in compliance with Russian space industry standards (Roscosmos license). All products are adapted for Soyuz/Fregat, Start-1M, and PSLV interfaces.



11.04.24

first orbital
launch date

100%

nominal operation
of all systems

3U, 6U

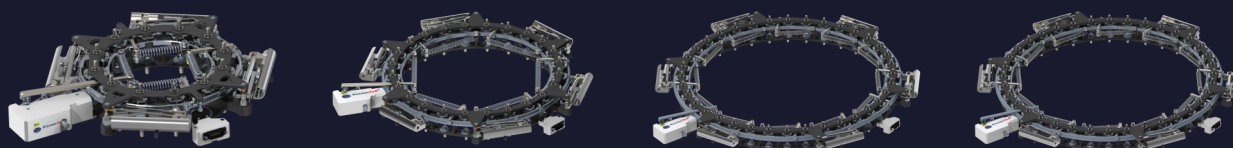
CubeSats deployed
to orbit

Product Catalog

Complete range of products designed and manufactured by KosmoLab for small satellite deployment.

DEPLOYMENT SYSTEMS

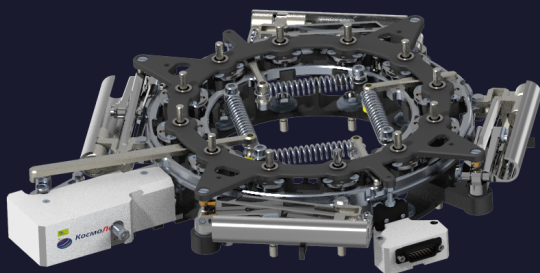
Deployment Systems 50/100/200/500 kg



Deployment Systems for 50 / 100 / 200 kg space satellites. Absence of pyrotechnics provides smooth, shockless deployment of space satellites at the moment of separation from the upper stage of launch vehicle. Available modification of Systems according to your specification.

Parameter	LSO-050	LSO-100	LSO-200	LSO-500
Type	Deployment system	Deployment system	Deployment system	Deployment system
Series	LSO	LSO	LSO	LSO
Form Factor	LSO-050	LSO-100	LSO-200	LSO-500
Product Mass	4.5 kg	8.0 kg	13.5 kg	17 kg
Spacecraft Mass (max)	50 kg	100 kg	200 kg	500 kg
Spacecraft Mass Range	5 to 50	50 to 100	100 to 200	200 to 500
Separation Time	≤ 1 c	≤ 1 c	≤ 1 c	≤ 1 c
Separation Velocity	0.5 — 2.0 m/c	0.5 — 2.0 m/c	0.5 — 2.0 m/c	0.5 — 2.0 m/c
Angular Velocity	≤ 2 °/c	≤ 2 °/c	≤ 2 °/c	≤ 2 °/c
Control Channels	1	1	1	1
Temperature Range	-60°C to +60°C	-60°C to +60°C	-60°C to +60°C	-60°C to +60°C
Lead Time	6 - 9 months	6 - 9 months	6 - 9 months	6 - 9 months
Manufacturer	KosmoLab	KosmoLab	KosmoLab	KosmoLab
Country	Russia	Russia	Russia	Russia
Price:	6 000 000 RUB	7 500 000 RUB	9 500 000 RUB	12 000 000 RUB

Deployment System 50 kg



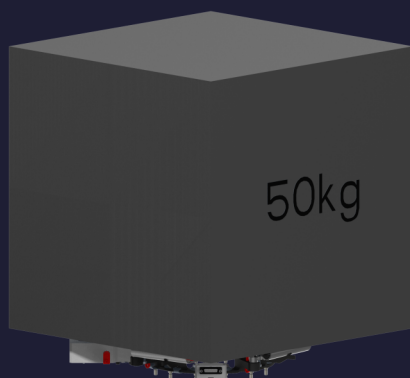
For 50 kg space satellites. Absence of pyrotechnics provides smooth, shockless deployment of space satellites at the moment of separation from the upper stage of launch vehicle.

Parameter	Value
Type	Deployment system
Series	LSO
Form Factor	LSO-050
Product Mass	4.5 kg
Spacecraft Mass (max)	50 kg
Spacecraft Mass Range	5 to 50
Separation Time	≤ 1 c
Separation Velocity	0.5 — 2.0 м/с
Angular Velocity	≤ 2 °/с
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	6 - 9 months
Manufacturer	KosmoLab
Country	Russia

PRICE

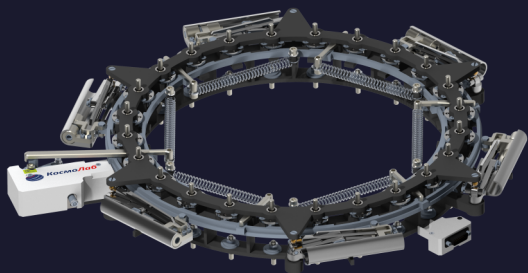
6 000 000 RUB

Payload Accommodation



Satellite 50 kg Placement

Deployment System 100 kg



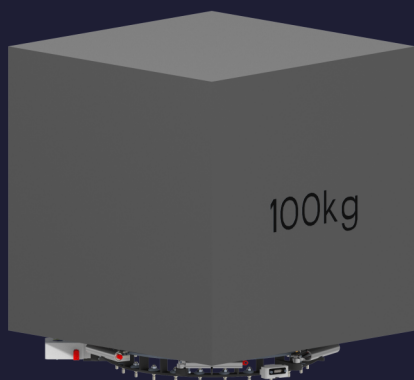
For 100 kg space satellites. Absence of pyrotechnics provides smooth, shockless deployment of space satellites at the moment of separation from the upper stage of launch vehicle.

Parameter	Value
Type	Deployment system
Series	LSO
Form Factor	LSO-100
Product Mass	8.0 kg
Spacecraft Mass (max)	100 kg
Spacecraft Mass Range	50 to 100
Separation Time	≤ 1 c
Separation Velocity	0.5 — 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	6 - 9 months
Manufacturer	KosmoLab
Country	Russia

PRICE

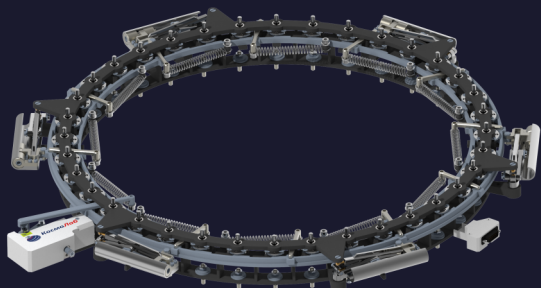
7 500 000 RUB

Payload Accommodation



Satellite 100 kg Placement

Deployment System 200 kg



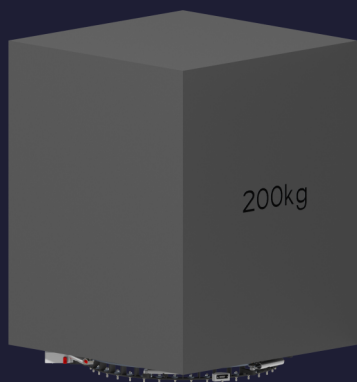
For 200 kg space satellites. Absence of pyrotechnics provides smooth, shockless deployment of space satellites at the moment of separation from the upper stage of launch vehicle.

Parameter	Value
Type	Deployment system
Series	LSO
Form Factor	LSO-200
Product Mass	13.5 kg
Spacecraft Mass (max)	200 kg
Spacecraft Mass Range	100 to 200
Separation Time	≤ 1 c
Separation Velocity	0.5 — 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	6 - 9 months
Manufacturer	KosmoLab
Country	Russia

PRICE

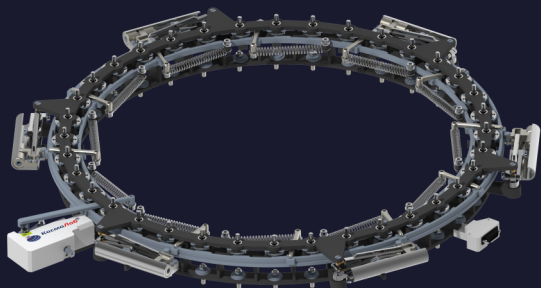
9 500 000 RUB

Payload Accommodation



Satellite 200 kg Placement

Deployment System 500 kg



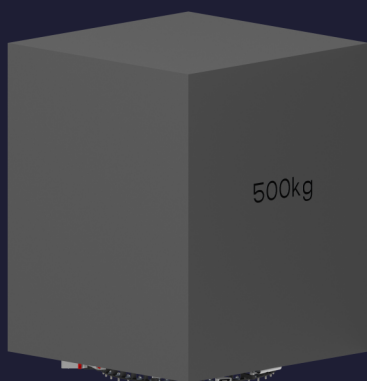
For 500 kg space satellites. Absence of pyrotechnics provides smooth, shockless deployment of space satellites at the moment of separation from the upper stage of launch vehicle.

Parameter	Value
Type	Deployment system
Series	LSO
Form Factor	LSO-500
Product Mass	17 kg
Spacecraft Mass (max)	500 kg
Spacecraft Mass Range	200 to 500
Separation Time	≤ 1 c
Separation Velocity	0.5 — 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	6 - 9 months
Manufacturer	KosmoLab
Country	Russia

PRICE

12 000 000 RUB

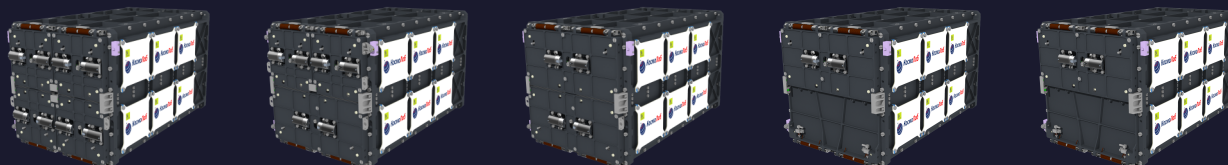
Payload Accommodation



Satellite 500 kg Placement

DEPLOYERS

Launch Deployers 12U/16U SERIES

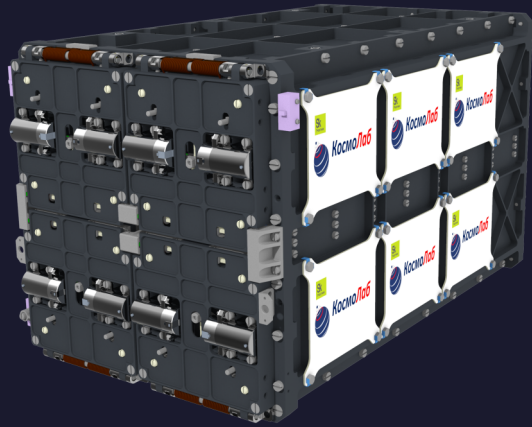


in any configuration: 1*12\16U, 2*6U, 1*6U+2*3U, 4*3U.

Available modification of deployers according to specific requirements of your CubeSat and desired launch vehicle.

Parameter	4x3U	2x3U/1x6U	2x6U	12U	16U
Type	Deployer	Deployer	Deployer	Deployer	Deployer
Series	12U/16U «SERIES»	12U/16U «SERIES»	12U/16U «SERIES»	12U/16U «SERIES»	12U/16U «SERIES»
Form Factor	4x3U	2x3U/1x6U	2x6U	12U	16U
Dimensions, mm	480 × 290 × 299	480 × 290 × 299	480 × 290 × 299	480 × 290 × 299	600 × 290 × 299
Product Mass	10 kg	9,5 kg	9 kg	8,5 kg	12 kg
Spacecraft Mass (max)	26 kg	26 kg	26 kg	26 kg	40 kg
Separation Time	≤ 1 c	≤ 1 c	≤ 1 c	≤ 1 c	≤ 1 c
Separation Velocity	0.5 - 2.0 м/с	0.5 - 2.0 м/с	0.5 - 2.0 м/с	0.5 - 2.0 м/с	0.5 - 2.0 м/с
Angular Velocity	≤ 2 °/с	≤ 2 °/с	≤ 2 °/с	≤ 2 °/с	≤ 2 °/с
Control Channels	4	3	2	1	1
Temperature Range	-60°C to +60°C	-60°C to +60°C	-60°C to +60°C	-60°C to +60°C	-60°C to +60°C
Lead Time	4 - 6 months	4 - 6 months	4 - 6 months	4 - 6 months	4 - 6 months
Manufacturer	KosmoLab	KosmoLab	KosmoLab	KosmoLab	KosmoLab
Country	Russia	Russia	Russia	Russia	Russia
Price:	6 000 000 RUB	6 000 000 RUB	5 500 000 RUB	5 000 000 RUB	6 000 000 RUB

Deployer SERIES 4x3U

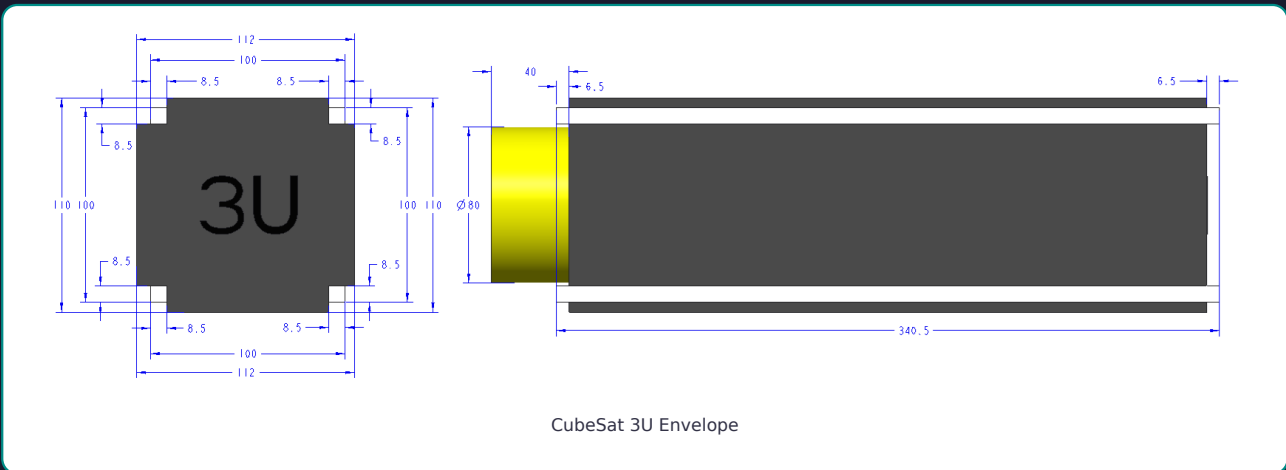
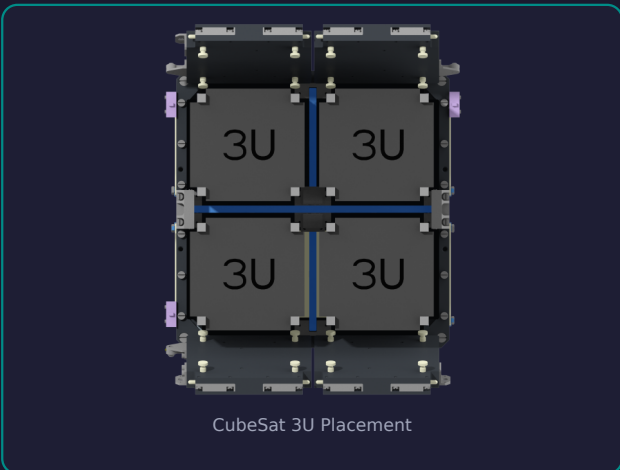


4x3U configuration enables simultaneous deployment of four 3U-class CubeSats. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your CubeSat and launch vehicle requirements.

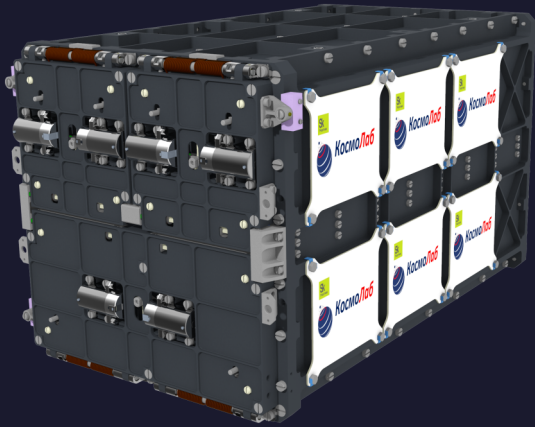
Parameter	Value
Type	Deployer
Series	12U/16U «SERIES»
Form Factor	4x3U
Dimensions, mm	480 × 290 × 299
Product Mass	10 kg
Spacecraft Mass (max)	26 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	4
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 6 000 000 RUB

Payload Accommodation



Deployer SERIES 2x3U/1x6U

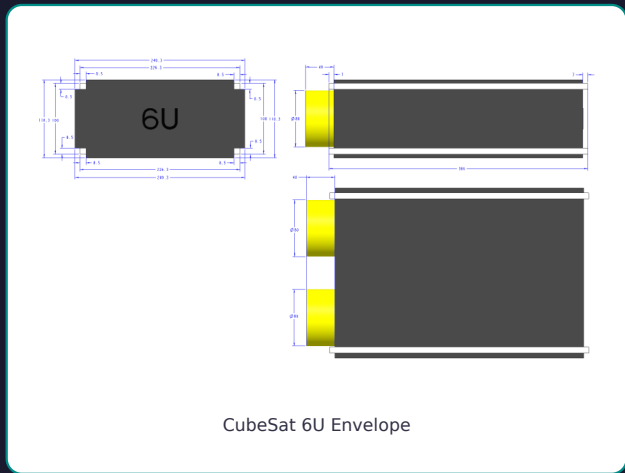
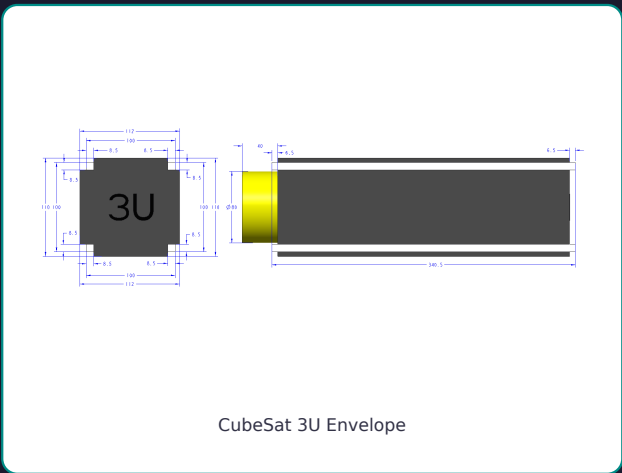
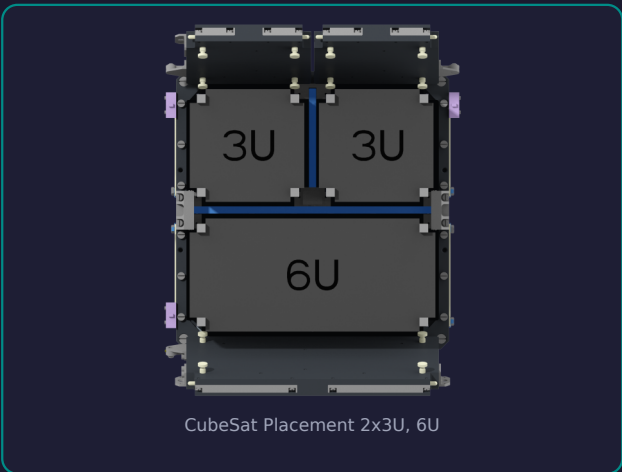


Mixed configuration 2x3U/1x6U enables simultaneous deployment of two 3U and one 6U-class CubeSats in a single launch. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M. Customization available.

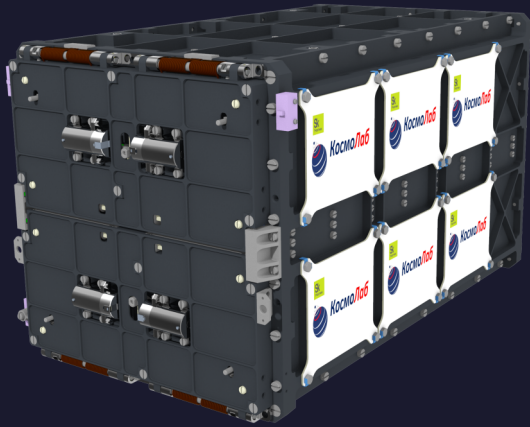
Parameter	Value
Type	Deployer
Series	12U/16U «SERIES»
Form Factor	2x3U/1x6U
Dimensions, mm	480 × 290 × 299
Product Mass	9,5 kg
Spacecraft Mass (max)	26 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	3
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 6 000 000 RUB

Payload Accommodation



Deployer SERIES 2x6U

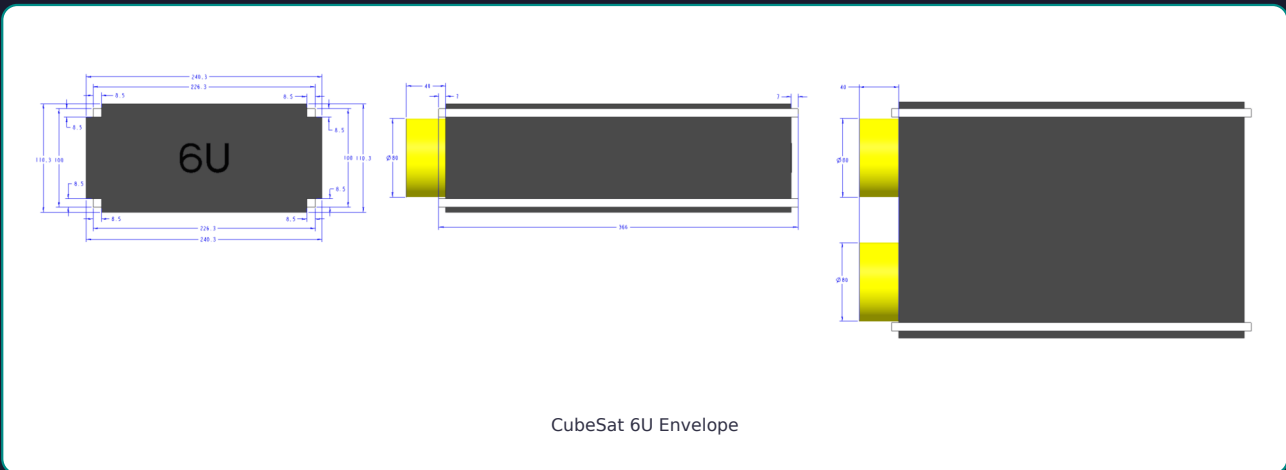


2x6U configuration enables simultaneous deployment of two 6U-class CubeSats. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your CubeSat and launch vehicle requirements.

Parameter	Value
Type	Deployer
Series	12U/16U «SERIES»
Form Factor	2x6U
Dimensions, mm	480 × 290 × 299
Product Mass	9 kg
Spacecraft Mass (max)	26 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	2
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 5 500 000 RUB

Payload Accommodation



Deployer SERIES 12U

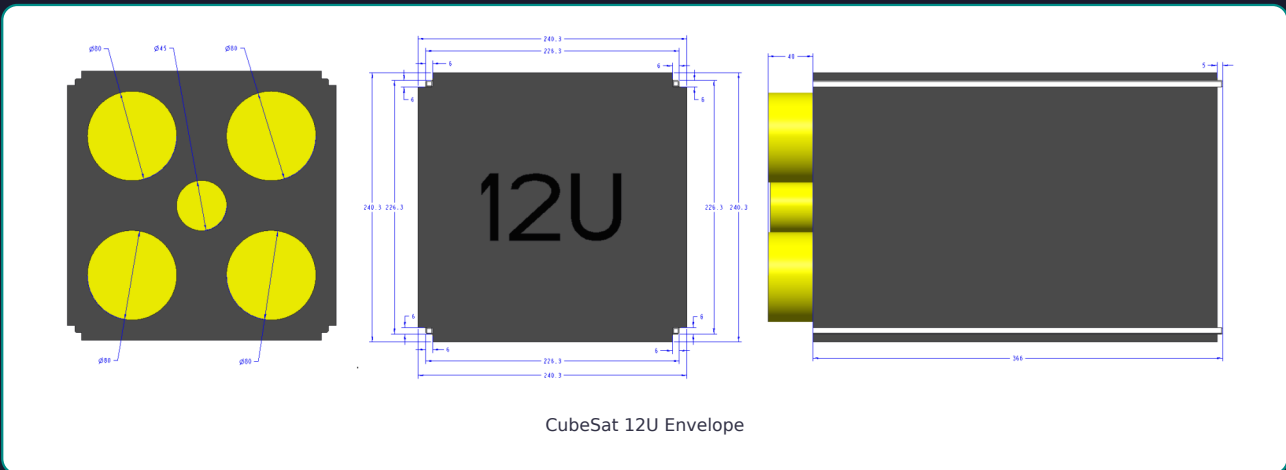


12U configuration for deployment of a single 12U-class spacecraft. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your spacecraft requirements.

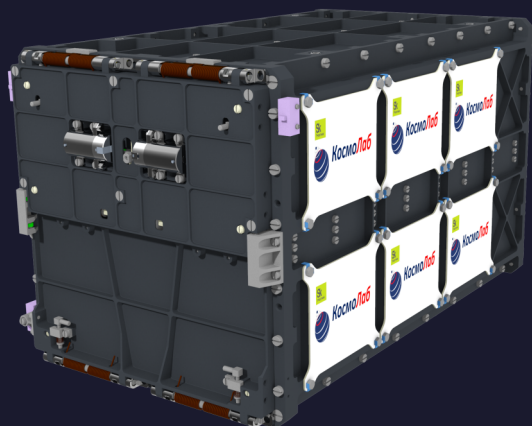
Parameter	Value
Type	Deployer
Series	12U/16U «SERIES»
Form Factor	12U
Dimensions, mm	480 × 290 × 299
Product Mass	8,5 kg
Spacecraft Mass (max)	26 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 5 000 000 RUB

Payload Accommodation



Deployer SERIES 16U

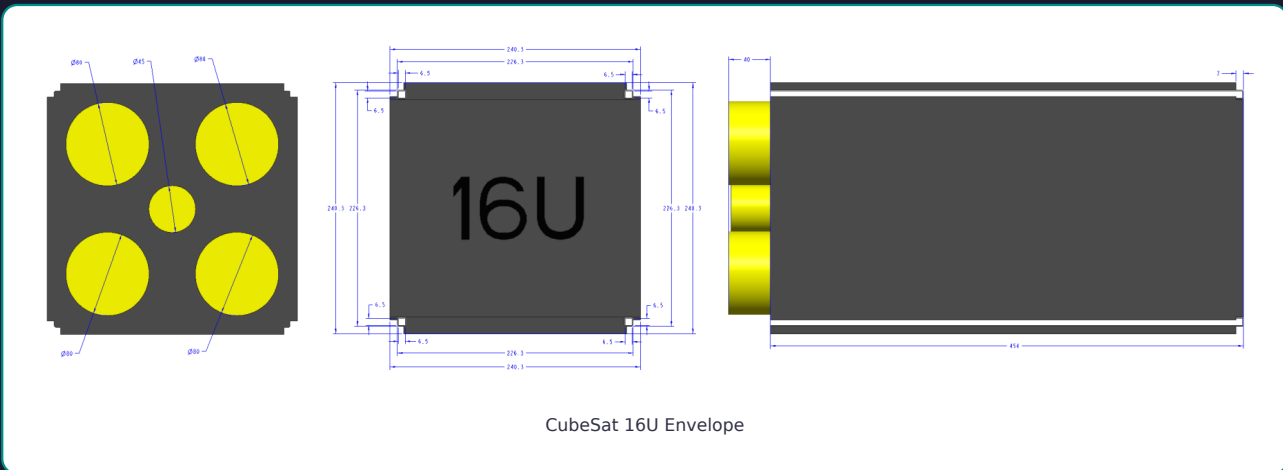
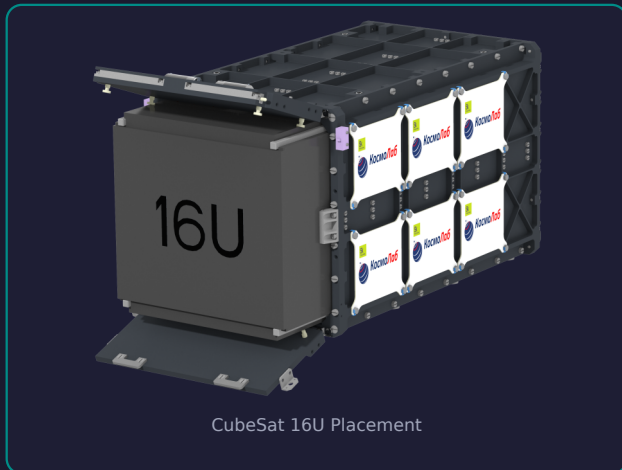


16U configuration for deployment of a single 16U-class spacecraft. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your spacecraft requirements.

Parameter	Value
Type	Deployer
Series	12U/16U «SERIES»
Form Factor	16U
Dimensions, mm	600 × 290 × 299
Product Mass	12 kg
Spacecraft Mass (max)	40 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Control Channels	1
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 6 000 000 RUB

Payload Accommodation



Launch Deployers 12U/16U EXT

Deployer EXT 16U



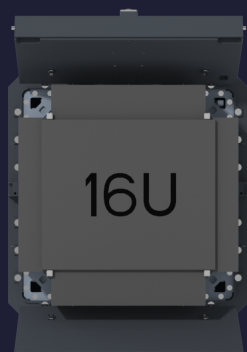
«EXT» 16U configuration with extended accommodation zone for 16U-class CubeSats. Compatible with Angara/Orion, Soyuz/Fregat, PSLV, Start-1M launch vehicles.

Parameter	Value
Type	Deployer
Series	12U/16U «EXT»
Form Factor	16U EXT
Dimensions, mm	600 × 290 × 299
Product Mass	10 kg
Spacecraft Mass (max)	40 kg
Separation Time	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c
Temperature Range	-60°C to +60°C
Lead Time	6 - 9 months
Manufacturer	KosmoLab
Country	Russia

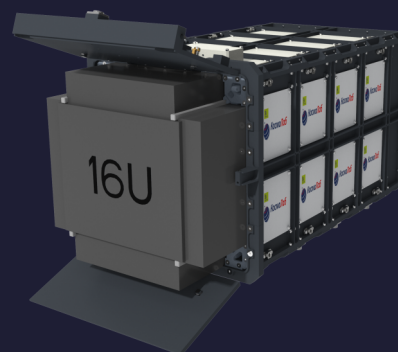
PRICE

6 000 000 RUB

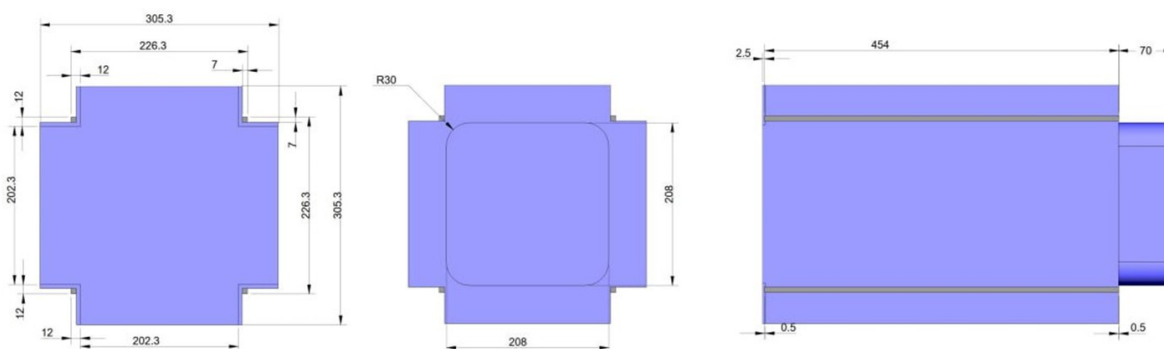
Payload Accommodation



CubeSat 16U EXT Placement

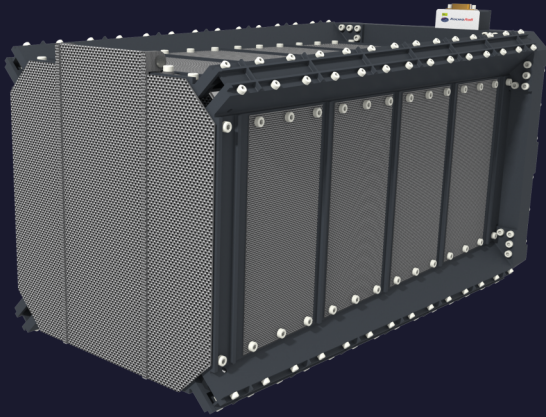


CubeSat 16U EXT Placement



CubeSat 16U EXT Envelope

Launch Deployers 12U/16U LIGHT



The most LIGHTWEIGHT deployer ever!
Launch your useful space satellite payload instead of auxiliary deployer's KGs!

Unique KosmoLab construction and composites usage provides significantly reduced mass and extended areas for CubeSat's spacing, keeping at that both longitudinal and lateral clamping of CubeSat.

Deployers «LIGHT» are easily adaptable to modification according to specific requirements of your space satellite – mail us your CubeSat's nonstandard parameters and we will provide optimal solution for you.

Parameter	12U	16U
Type	Deployer	Deployer
Series	LIGHT	LIGHT
Form Factor	12U	16U
Product Mass	6 kg	6 kg
Spacecraft Mass (max)	26 kg	40 kg
Spacecraft Mass Range	up to 26	up to 40
Separation Time	≤ 1 c	≤ 1 c
Separation Velocity	0.5 - 2.0 m/c	0.5 - 2.0 m/c
Angular Velocity	≤ 2 °/c	≤ 2 °/c
Temperature Range	-60°C to +60°C	-60°C to +60°C
Lead Time	6 - 9 months	6 - 9 months
Manufacturer	KosmoLab	KosmoLab
Country	Russia	Russia
Price:	5 000 000 RUB	5 000 000 RUB

Launch Deployers 3U/4U

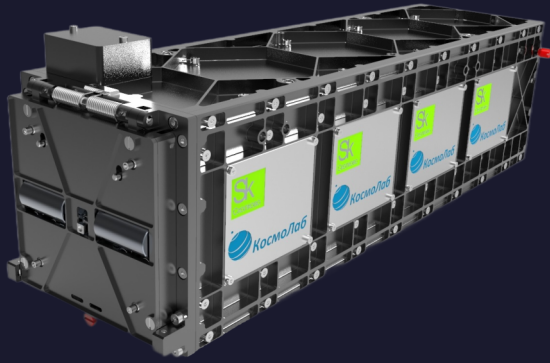


This Deployer 4U is ready and available for FREE for launch on Soyuz\Fregat, PSLV, Start-1M or any another your launch vehicle - mail us its loadings and interface and we will work over with necessary for compatibility. Export control permissions are supported.

Available modification of Deployers KosmoLab 3U/4U to specific requirements of your CubeSat.

Parameter	3U	4U
Type	Deployer	Deployer
Series	Standard	Standard
Form Factor	3U	4U
Dimensions, mm	557 × 158 × 187	557 × 158 × 187
Product Mass	4.7 kg	4.7 kg
Spacecraft Mass (max)	6 kg	6 kg
Spacecraft Mass Range	0.1 to 4	0.1 to 6
Separation Time	≤ 1 s	≤ 1 s
Separation Velocity	0.5 — 2.0 m/s	0.5 — 2.0 m/s
Angular Velocity	≤ 2 deg/s	≤ 2 deg/s
Temperature Range	-60°C to +60°C	-60°C to +60°C
Lead Time	4 - 6 months	4 - 6 months
Manufacturer	KosmoLab	KosmoLab
Country	Russia	Russia
Price:	3 500 000 RUB	3 500 000 RUB

Deployers 3U

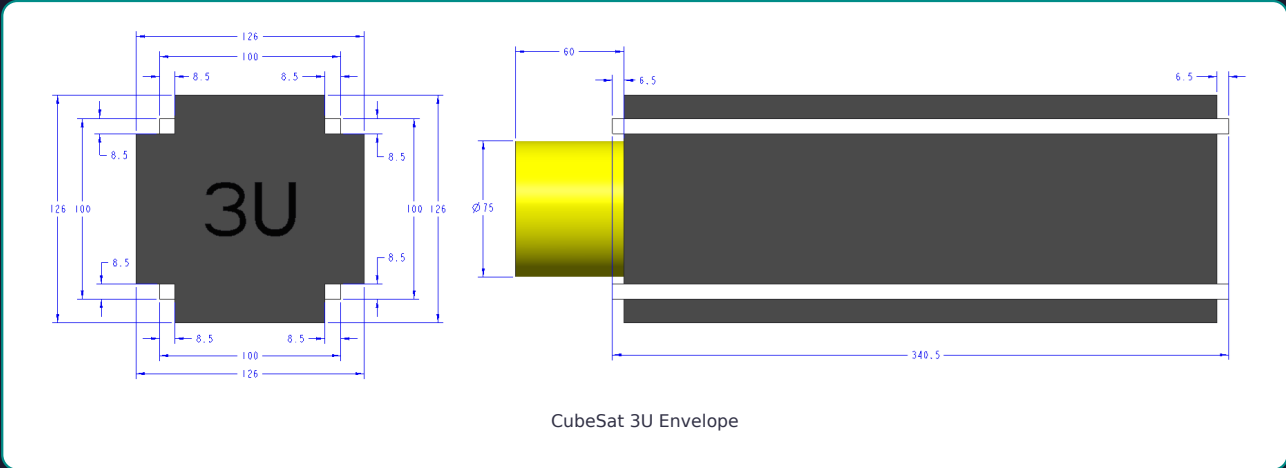
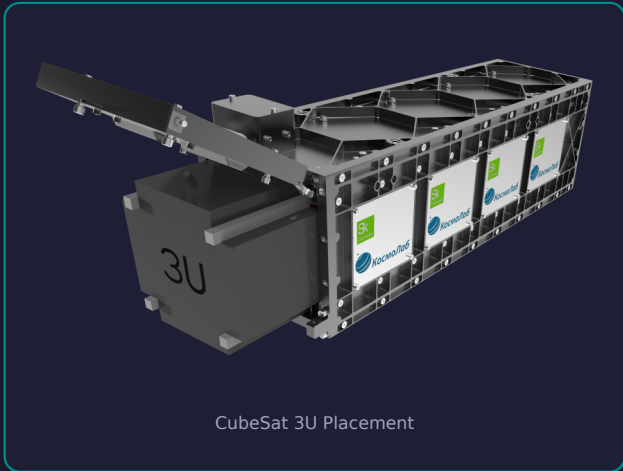
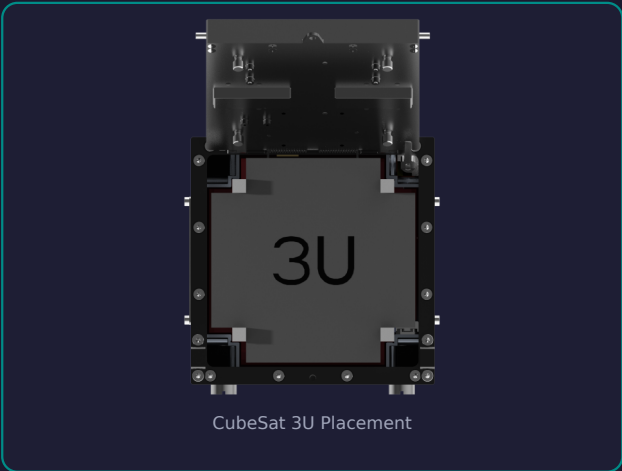


Deployers 3U provide transport and deployment of 3U-class CubeSats. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your. Available modification of Deployers KosmoLab 3U/4U to specific requirements of your CubeSat.

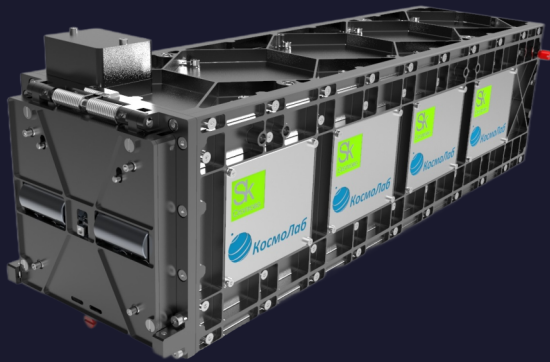
Parameter	Value
Type	Deployer
Series	Standard
Form Factor	3U
Dimensions, mm	557 × 158 × 187
Product Mass	4.7 kg
Spacecraft Mass (max)	6 kg
Spacecraft Mass Range	0.1 to 4
Separation Time	≤ 1 s
Separation Velocity	0.5 — 2.0 m/s
Angular Velocity	≤ 2 deg/s
Temperature Range	−60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 3 500 000 RUB

Payload Accommodation



Deployers 4U

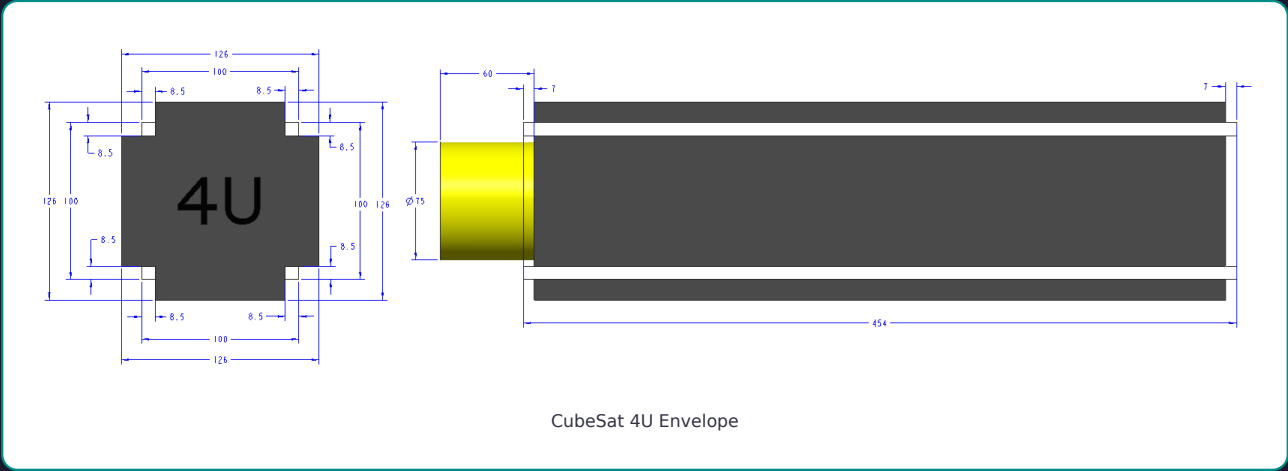
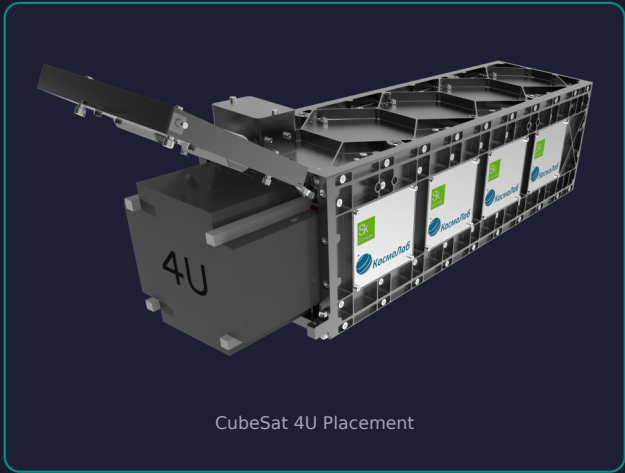
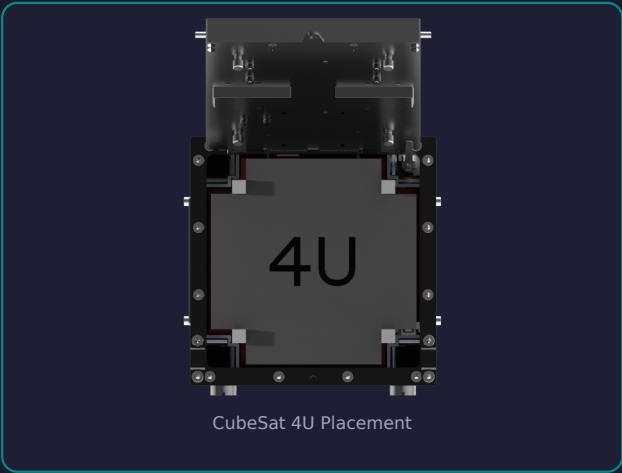


Deployers 4U provide transport and deployment of 4U-class CubeSats. Compatible with Angara, Soyuz/Fregat, PSLV, Start-1M and other launch vehicles. Customization available to match your. Available modification of Deployers KosmoLab 3U/4U to specific requirements of your CubeSat.

Parameter	Value
Type	Deployer
Series	Standard
Form Factor	4U
Dimensions, mm	557 × 158 × 187
Product Mass	4.7 kg
Spacecraft Mass (max)	6 kg
Spacecraft Mass Range	0.1 to 6
Separation Time	≤ 1 s
Separation Velocity	0.5 — 2.0 m/s
Angular Velocity	≤ 2 deg/s
Temperature Range	-60°C to +60°C
Lead Time	4 - 6 months
Manufacturer	KosmoLab
Country	Russia

PRICE 3 500 000 RUB

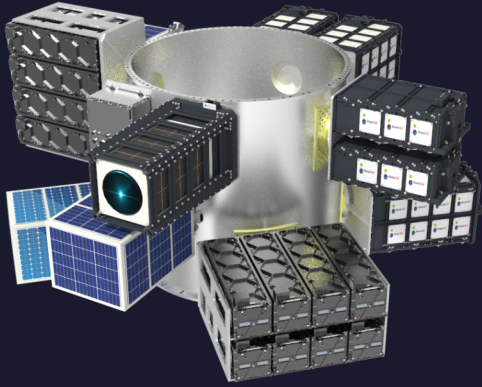
Payload Accommodation



ADAPTERS

Payload Adapters for LV

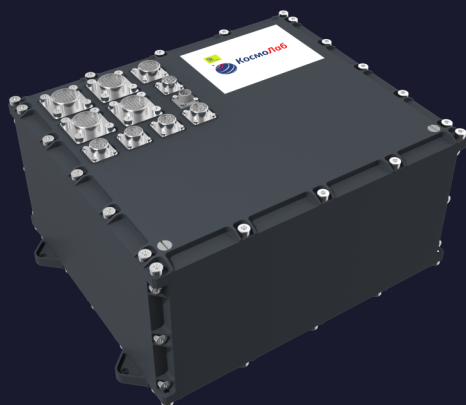
Payload Adapter for LV



provides optimal mounting of different types of deployment systems with satellites. It is developed according to requirements specification for particular launch mission and required for LV mass center parameters. Unique KosmoLab construction and composites usage provides significantly reduced mass of ADAPTER.

COMPONENTS

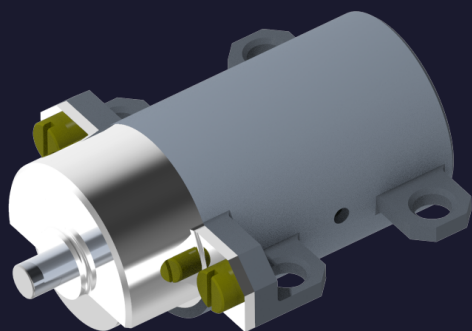
Control Units



on getting activating signal from LV, provides start of mission cyclogram giving on target orbits output signals to initiate each satellite deployment. Also returns back to LV telemetry information confirming both actuation of mechanisms and deployment of satellites

Parameter	Sequencer BU-12	Sequencer BU-24	Sequencer BU-36
Type	Electronics	Electronics	Electronics
Series	BU-12	BU-24	BU-36
Dimensions, mm	300 × 235 × 145	300 × 235 × 145	300 × 235 × 145
Product Mass	4.5 кг	5.0 кг	5.5 кг
Payload Voltage	28	28	28
Current per Channel	2	2	2
Max Total Current	4	4	4
Battery Capacity	4	4	4
Control Channels	12	24	36
Temperature Range	-35°C to +60°C	-35°C to +60°C	-35°C to +60°C
Lead Time	4 - 6 months	4 - 6 months	4 - 6 months
Manufacturer	KosmoLab	KosmoLab	KosmoLab
Country	Russia	Russia	Russia
Price:	1 500 000 RUB	1 750 000 RUB	2 000 000 RUB

Electric Lock



To release of actuating mechanisms of space-rocket hardware. Available modification of Electric lock KosmoLab according to your requirements specification and development — production — acceptance tests of actuating mechanism. Mail us your application and required parameters and we will provide optimal complex solution for you.

Parameter	Value
Type	Mechanism
Series	28V
Form Factor	28V
Dimensions, mm	48.7 × 37.4 × 22.4
Product Mass	≤ 0.1 kg
Stroke	≥ 4.5
Pull Force	0.45 ± 0.05
Temperature Range	-60°C to +60°C
Lead Time	2 - 3 months

Launch Service

KosmoLab arranges rideshare and dedicated launches for small satellites on the world's key launch vehicles. Below is the upcoming launch schedule.

Launch Vehicle / Mission	Period	Status
Soyuz-2.1b / Launch from the Fregat launch vehicle (NEO) — 2027	Q1, 2027	
Soyuz-2.1b / Rideshare SSO #1 — 2027	Q1 2027	All slots available
Soyuz-2.1v / Dedicated Small Satellite Launch	Q2 2027	Negotiations open
KosmoLab Mission on Start-1M (planned 2027)	Q2 2027	Available
Soyuz-2.1a / Rideshare LEO #1 — 2027	Q3 2027	Available
PSLV-XL / Rideshare SSO (India) — 2027	Q3 2027	Available
Soyuz-2.1b / Rideshare SSO #1 — 2028	Q2 2028	Slot negotiations open
Angara-A5 / Commercial Heavy GEO Launch	Q2 2028	Contract negotiations
PSLV-XL / Rideshare SSO (India) — 2028	Q3 2028	Slot negotiations open
Soyuz-2.1b / Rideshare LEO #1 — 2028	Q4 2028	Slot negotiations open

Services

KosmoLab provides a comprehensive range of services for preparing and executing your satellite launch.

01

Joint spacecraft testing support, preparation for launch site delivery

Support of joint spacecraft testing with separation systems, preparation for transport and delivery to the launch technical complex

02

Launch permits and export licensing

Obtaining launch permits, spacecraft export licenses and customs clearance

03

Technical documentation review

Structural compatibility assessment and ICD development for spacecraft integration

04

ITU frequency coordination

ITU radio frequency registration via Russian notifier for spacecraft radio protection

05

Spacecraft delivery to technical complex

Specialist packaging, escorted transport of spacecraft to the technical complex

06

Spacecraft integration into deployer / separation system

Spacecraft placement, mechanical integration, fit checks and interface verification

07

Work support at technical complex

KosmoLab engineers support during spacecraft preparation at the cosmodrome technical complex

08

Pre-launch functional check

Electrical checks of spacecraft in the launch assembly before transport to the launch pad

09

Launch phase insurance

Spacecraft insurance during pre-launch preparation and ascent to target orbit

10

Post-launch monitoring and orbit confirmation

Launch monitoring, TLE handoff to customer and spacecraft registration in NORAD catalog

Contacts



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We are open for cooperation and ready to discuss your project.
Contact us for a customized commercial proposal.



**Space reliability
with transparent pricing**

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