

NEWSPACE MARKET • COMPANY PROFILE

TDI SIE SB RAS (Technological Design Institute of Scientific Instrument Engineering)

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5

PRODUCTS

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as of 26
September 2026



TDI SIE SB RAS (Technological Design Institute of Scientific Instrument Engineering)

TDI SIE SB RAS (Technological Design Institute of Scientific Instrument Engineering) (КТИ НИИ СО РАХ) — Russian space industry enterprise, Novosibirsk. Its products listed on NewSpace Market come from the Glavkosmos export catalogue.

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



TDI SIE SB RAS (TECHNOLOGICAL DESIGN INSTITUTE OF SCIENTIFIC INSTRUMENT ENGINEERING)	
Active Weightlessness System	
The Active Weightlessness System is a ground-based test equipment designed to simulate weightlessness for modal testing of large transformable spacecraft systems, including reflect	
Purpose	Ground modal testing under conditions simulating weightlessness and testing of large trans
Year of release	2014
Design life	3 years
Lead time	12 months
Possibility to adapt the product to customer requirements	Yes
Object suspension error	Active suspension system for large-sized transformable spacecraft systems at ground modal

price on request



TDI SIE SB RAS (TECHNOLOGICAL DESIGN INSTITUTE OF SCIENTIFIC INSTRUMENT ENGINEERING)	
Automatic Control System of Thermal-vacuum-testing	
This system provides automatic control for thermal-vacuum testing of spacecraft in a vacuum chamber, including analysis of off-nominal situations.	
Purpose	Automatic control of thermal vacuum testing course of spacecraft in a vacuum chamber. Off-
Year of release	2011
Design life	5 years
Lead time	12 months
Possibility to adapt the product to customer requirements	Yes
Vacuum chamber temperature range	±150 C
Duration of continuous tests without failing	>720 hours

flight proven · TRL 9 price on request



TDI SIE SB RAS (TECHNOLOGICAL DESIGN INSTITUTE OF SCIENTIFIC INSTRUMENT ENGINEERING)

Control Complex of a Large-sized Products

A programmable real-time control complex for monitoring the shape and dimensional deviations of large-sized product forms (10 m and larger) using a network of compact triangulation

Purpose	Real time control of large-sized product forms (from 10 m and more)
Year of release	2007
Design life	1 years
Lead time	12 months
Possibility to adapt the product to customer requirements	Yes
Measurement range	± 20 mm
Measurement error	0.1 mm

price on request



TDI SIE SB RAS (TECHNOLOGICAL DESIGN INSTITUTE OF SCIENTIFIC INSTRUMENT ENGINEERING)

Solar Weightless System

An automated ground-based system that simulates weightlessness for testing large-sized spacecraft elements such as solar panels.

Purpose	Designed for ground testing (weightlessness) of spacecraft equipment, solar panels
Year of release	2016
Design life	10 years
Lead time	12 months
Possibility to adapt the product to customer requirements	Yes
Number of suspension points weightlesselements	12 pcs
Suspension point travel in the longitudinal direction	up to 17 m

price on request



TDI SIE SB RAS (TECHNOLOGICAL DESIGN INSTITUTE OF SCIENTIFIC INSTRUMENT ENGINEERING)

Transformable Reflectors Weightless System

An automated weightlessness (zero-gravity offloading) suspension system used for ground testing of spacecraft equipment and transformable/deployable reflectors.

Year of release	2016
Design life	10 years
Lead time	12 months
Possibility to adapt the product to customer requirements	Yes
Number of suspension points weightless elements	36 pcs
Suspension point travel in any direction	up to 12 m
Suspension point movement speed	1 m / min

price on request

Contact TDI SIE SB RAS (Technological Design Institute of Scientific Instrument Engineering)

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

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