

NEWSPACE MARKET · COMPANY PROFILE



Dcubed

Germany · dcubed.space

11

PRODUCTS

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Dcubed

Dcubed is a Munich-based space deployables company that applies patented Shape Memory Alloy (SMA) technology and proprietary Origami-inspired structures to create compact, lightweight release actuators, deployable solar arrays, and antenna deployment systems for small satellites. Dcubed's products outperform traditional space deployment mechanisms on multiple dimensions including weight, size, cost, durability, reusability, and availability. The company's Shape Memory technology enables reliable, repeatable deployment without pyrotechnic hold-down release mechanisms — reducing testing costs and improving reliability for CubeSat and microsatellite missions. The company's customers include major CubeSat operators and constellation builders. Their In-Space Manufacturing (ISM) product line extends their deployable structures concept toward on-orbit manufacturing and assembly applications. Dcubed's products are space-qualified and have been selected for missions involving NASA, HawkEye 360, Astroscale, and other leading operators.

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.

Product catalogue



DCUBED

Body-Mounted Solar Array

Fixed body-mounted solar panels for CubeSats and smallsats, with triple-junction GaAs cells pre-integrated onto structural panels for immediate spacecraft integration.

price on request



DCUBED

Flexible Blanket Solar Array

Dcubed's Flexible Blanket Solar Array is a compact, lightweight, and durable solar array designed for spacecraft, offering high power generation for a given mass and volume.

EOL Power up to 2kW

price on request



DCUBED

Micro Pin Puller (uD3PP)

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-Resettable	Front and Rear, in Seconds, up to 100 times
Delivery Time	10-12 weeks
Actuation	Fully Redundant
Trigger	Smart SMA
Shock	Very Low
Shear Load (Release Load)	120-150 N
Proof Load (Push-in Load axial)	120 N

price on request



DCUBED

Micro Release Nut (uD3RN)

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 Resettable	40-100 times
Short Delivery Time	10-12 weeks
Axial Load (Release Load)	4,000 N
Proof Load	4,500 N Pull-out
Body Size	25 x 25 x 25 mm
Mass	38 grams

flight proven • TRL 9 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 Resettable	Front and Rear, in Seconds, up to 400 times
Delivery Time	6-8 weeks
Actuation	Fully Redundant
Trigger	Smart SMA
Shock	Ultra Low
Sensor	Actuation Sensor

flight proven · TRL 9 price on request



DCUBED

Nano Release Nut (nD3RN)

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

TRL	9
Resetability	On-Ground and In-Space Resettable in Seconds, up to 400 times
Delivery Time	Short (6-8 weeks)
Actuation	Fully Redundant
Trigger	Smart SMA
Shock	Ultra Low
Axial Load (Release Load)	250-380 N

flight proven · TRL 9 price on request



DCUBED

Nano SmartPack Release Nut (nD3SP)

The Dcubed Nano SmartPack Release Nut (nD3SP) is an ultra-flat, shape-memory alloy (SMA) based release actuator designed to secure sensitive equipment during launch and safely rele

TRL	9
Field-Resettable	in Seconds, up to 400 times
Short Delivery Time	8-10 weeks
Actuation	Fully Redundant
Trigger	Smart SMA
Shock	Ultra Low
Sensor	Actuation

flight proven · TRL 9 price on request



DCUBED

Origami Solar Array

The Dcubed PowerCube is a deployable 100W Origami Solar Array stowed within a 1U form factor, enabling high-power space missions with minimal stowed volume.

Short Delivery Time	12 months
EOL power	100 W (5 years lifetime)
Stowed volume	100x100x100 mm (1U)
Deployed volume	110x110x190 mm
Mass	1.2 Kg
Bus voltage	14-28 V
Redundant actuation	Yes

price on request



DCUBED

Pin Pullers

The Pin Puller product line offers easy-to-use and highly-resettable 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
Mass (Nano Pin Puller nD3PP)	12 grams / 0.42 oz
Load (Nano Pin Puller nD3PP)	Shear Load: >50 N / 11 lbf

flight proven · TRL 9 price on request



DCUBED

Release Nuts

A family of release nuts designed for various space applications, offering different sizes, masses, and axial load capacities.

Size (SmartPack Release Nut nD3SP)	74x35x4 mm / 2.91x1.38x0.16 in
Mass (SmartPack Release Nut nD3SP)	27 grams / 0.95 oz
Load (SmartPack Release Nut nD3SP)	Axial Load: 200 N / 45 lbf
TRL (SmartPack Release Nut nD3SP)	9
Size (Nano Release Nut nD3RN)	17x17x17 mm / 0.67x0.67x0.67 in
Mass (Nano Release Nut nD3RN)	12 grams / 0.42 oz
Load (Nano Release Nut nD3RN)	Axial Load: 380 N / 85 lbf

flight proven · TRL 9 price on request



DCUBED

Rigid-Deployable Solar Array

Dcubed's rigid-deployable solar array offers a modular, compact, and lightweight solution for maximizing power generation in space applications.

price on request

Contact Dcubed

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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