



CTD (Composite Technology Development)

United States · founded 1988 · ctd-materials.com

5

PRODUCTS

3

WITH DATASHEETS

newspacemarket.com/companies/ctd-composite-technology-development/

as of 20 August 2026

A large, faint, stylized graphic of an eye or a camera lens is positioned in the background on the right side of the page. It consists of a central circle surrounded by several concentric, slightly offset arcs, creating a sense of depth and focus.

CTD (Composite Technology Development)

Composite Technology Development, Inc. (CTD) develops state-of-the-art composites for extreme conditions, harsh environments, and demanding applications. The company's solutions are in use worldwide across various commercial applications. These include high performance magnets and cryogenic systems for high energy physics, fusion, medical, and industrial markets. CTD also provides composite materials for aerospace, marine, automotive, and industrial applications where durability, longevity, and thermal cycling are required. The company was founded in 1988 and has over 30 years of expertise in composites and composite-based solutions.

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



CTD (COMPOSITE TECHNOLOGY DEVELOPMENT)

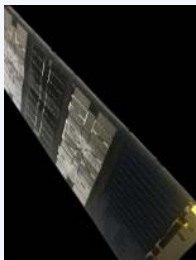
1U Quad CubeSat Boom Deployer

1U CubeSat boom deployer carrying four booms with wire management, deploying to 3.0 m.

Form factor	1U CubeSat
Booms	Four (quad), with wire management
Deployed length	3.0 m
Boom construction	Overlapping slit-tube booms, or patented Slit-Lock for maximum payload stability
Boom material - carbon fibre composite	Ultimate stiffness and thermal stability
Boom material - fiberglass	RF transparency
Boom material - hybrid metal-composite	Antenna elements

price on request

datasheet



CTD (COMPOSITE TECHNOLOGY DEVELOPMENT)

CLASP Composite Lightweight Array with Shape-memory Polymer

Deployable composite solar array with shape-memory polymer hinges: over 250 W/kg specific power and 110 kW/m3 packaging efficiency, CubeSat dispenser compatible.

Specific power	Exceeds 250 W/kg
Packaging efficiency	110 kW/m3
Deployment	Shape-memory polymer based composite architecture
Dispenser compatibility	CubeSat dispenser compatible
PV cells	Accommodates all PV cells; fit for purpose and mission budget
Design	Simple design with low parts count
Status	CLASP flight qualified (2015-2020 period per CTD timeline)

price on request

datasheet



CTD (COMPOSITE TECHNOLOGY DEVELOPMENT)
Composite Spacecraft Structures and Booms

Composite Technology Development's (CTD) carbon fiber reinforced polymer spacecraft booms, solar array substrates, antenna reflectors, and precision space structures.

Products	Composite booms, solar array substrates, antenna reflectors, structural panels
Boom Types	Deployed by spring (bistable) or motorized; self-deploying shape-memory variants
Material	CFRP (carbon fiber reinforced polymer), graphite/cyanate ester, M55J/RS-3
CTE	Near-zero CTE achievable for dimensionally stable optical structures
Customers	JPL, NASA Goddard, commercial satellite OEMs
HQ	Boulder, Colorado, USA (founded 1993)

price on request



CTD (COMPOSITE TECHNOLOGY DEVELOPMENT)
CTD Composite Deployable Structures

Composite Technology Development produces deployable composite booms, solar array structures, and antenna reflectors for spacecraft.

Products	Deployable booms, solar array structures, antenna reflectors
Material	High-stiffness composite materials

price on request



CTD (COMPOSITE TECHNOLOGY DEVELOPMENT)

Six-Axis CubeSat Boom Deployer

Patented multi-axis CubeSat boom deployer with a 6.0 m tip-to-tip deployed span about three axes.

Deployed span	6.0 m tip-to-tip about three axes
Boom construction	Overlapping slit-tube booms, or patented Slit-Lock for maximum payload stability
Boom material - carbon fibre composite	Ultimate stiffness and thermal stability
Boom material - fiberglass	RF transparency
Boom material - hybrid metal-composite	Antenna elements
Characteristics	Compact, reliable, stable, patented, tailorable, multi-axis
Status	First flight in the 2015-2020 period per CTD timeline

[price on request](#)

[datasheet](#)

Contact CTD (Composite Technology Development)

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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<https://www.ctd-materials.com>

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