



SPACE CARBON STRUTS

Space Carbon Struts are manufactured by MECANO ID from Carbon fabric / Epoxy resin using RTM (Resin Transfer Molding) process. Each strut is composed by a carbon tube and two carbon end-fittings. These products are space qualified.

HIGHLIGHTS

- > Standard tube diameters: Ø32mm , Ø50mm
- > Length up to 2000mm
- > Strut length ajustable on demand
- > Full space qualification file provided

Space Carbon Struts are in house manufactured.

Our own specific process and tools ensure uniform and repeatable high quality level for each manufactured struts.

Struts length is adjustable by choosing adapted tube length. Each end fitting ends with a titanium M10 insert.

It could be validated by performance tests: mechanical compression and quality tests such as non destructive testing (NDT), ultrasonics, micrography, void volume ratio determination and differential scanning calorimetry (DSC).

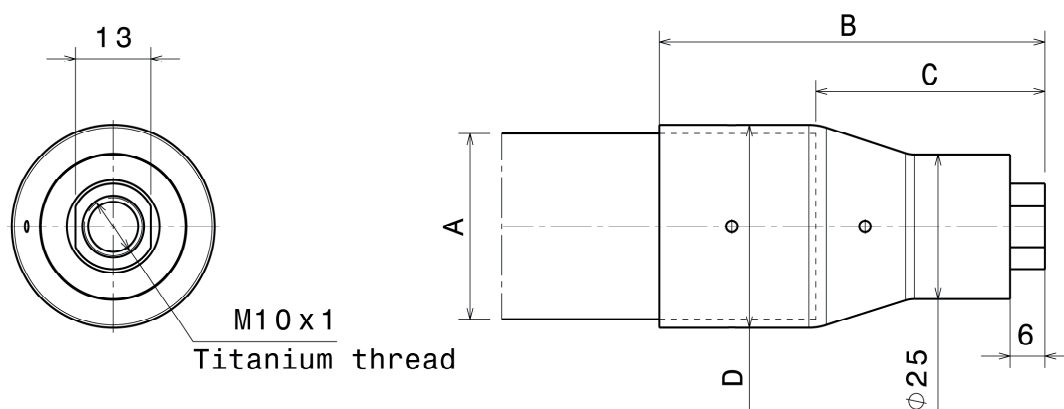
These Carbon Struts are used in Space and Defence fields.

In accordance with performance requirements of the application, carbon struts allow weight savings, stability, temperature and corrosion resistance.



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Layout



Applicable documents

CURRENT DATASHEET	Space Carbon Struts 1.3
INTERNAL SPECIFICATION	MID-ZPH-SPT-001 1/0
QUALIFICATION FILE	MID-ZPB-RPT-001 1/0
LAYOUT	MID-ZP0-COM-001 3/0 for end-fittings MID-ZP0-COM-006 1/0 for tubes

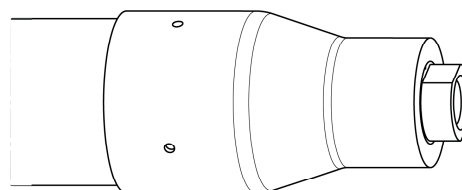
Dimensions

TUBE DIAMETER	Ø32, Ø50
LENGTH	180mm to 2000mm
END FITTING LENGTH	66mm, 81mm

Term of use

CFRP strut is composed of one CFRP tube and two CFRP end-fittings of the same diameter (standards: Ø32 - Ø50). The link is achieved by bonding according to a MECANO ID internal process. The Strut length is adjustable on demand from 180mm to 2000mm.

The strut interface is achieved by M10x1 L=2D in Titanium (Thread diameter and pitch can be modified on demand).



You need further sizes or mechanical properties? MECANO ID is specialized in design, sizing and manufacturing of high performance composite parts. For any specific need or any question, you could contact us at : contact@mecano-id.fr - +33 534 608 400