

# SPACE ALUMINIUM STRUTS

Space Aluminium Struts are manufactured by MECANO ID. Each strut is composed by an aluminium tube and two aluminium end-fittings. These products are space qualified.

## HIGHLIGHTS

- > Standard tube diameters: Ø40 , Ø50
- > Length up to 1500mm
- > Thread diameter and pitch can be manufactured on demand
- > Full space qualification file provided

Space Aluminium 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 M10x1.25 thread. It could be validated by performance tests: tensile test, quality tests, bounding control and non-destructive testing (NDT).

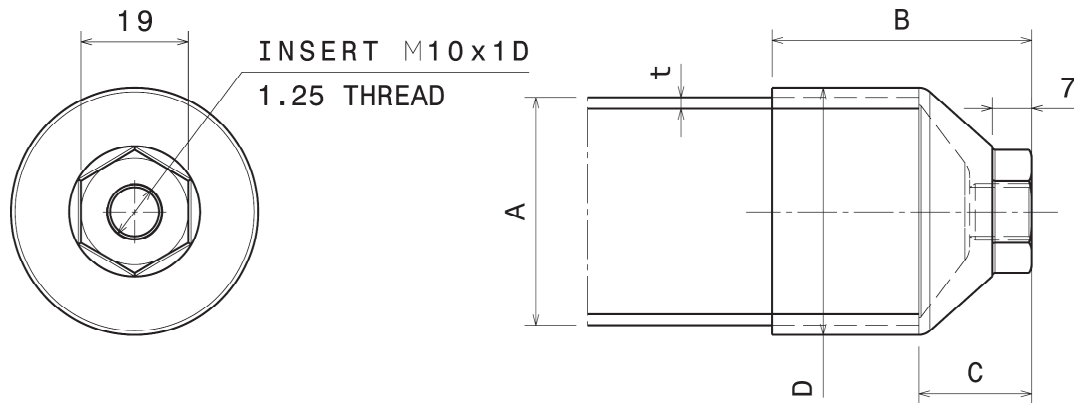
These Aluminium tubes are used in Space and Defence fields. Current qualified temperature range is -150°C / + 150°C.

In accordance with performance requirements of the application, aluminium struts allow weight savings, stability, temperature and corrosion resistance (temperature range to be defined by customer).



# SPACE ALUMINIUM STRUTS

## Layout



## Applicable documents

CURRENT DATASHEET	Space Aluminium Struts v1.2
INTERNAL SPECIFICATION	MID-ZPH-SPT-002 1/0
QUALIFICATION FILE	MID-ZNB-RPT-024 1-0
LAYOUT	MID-ZP0-COM-009-1-0

## Dimensions

TUBE DIAMETER	Ø40 , Ø50
LENGTH	achieved on demand from 150mm to 1500mm
END FITTING LENGTH	46mm

Other thread diameter and pitch can be manufactured on demand.  
Refer to layout MID-ZP0-COM-009 for full dimensions.

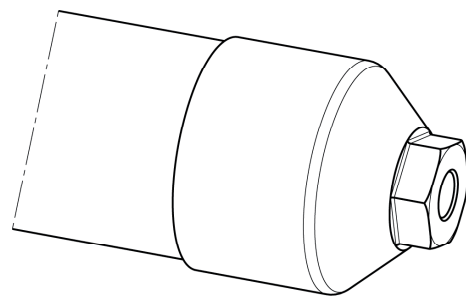
## Specifications

TEMPERATURE RANGE	-150/+150°C
-------------------	-------------

## Term of use

Space Aluminium Struts are composed of one aluminium tube (2017-T3) and two aluminium end-fittings (7075-T7351) with the same diameter. The link is achieved by bonding according to a MECANO ID qualified internal process. The strut length is adjustable on demand.

The strut interface is achieved by M10x1.25 Inox threaded insert (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](mailto:contact@mecano-id.fr) - +33 534 608 400