



CARBON TUBE HYPERSTABLE

Manufactured by **MECANO ID**

Thanks to engineering developments, manufacturing and measurement processes improvements, our space qualified Hyperstable Carbon Tubes ensure high quality, high performances and low weight of the structures they compos.

MAIN FEATURES

- **FULL SPACE QUALIFICATION**
- **STANDARD DIAMETERS : 50, 70, 85, 100 mm**
- **LENGTH UP : 2500 mm**
- **INDUSTIALIZATION PROCESS IMPROVES LEAD TIMES**
- **HIGHT STABILITY, HIGHT MECHANICAL PROPRIETIES**
- **LOW WEIGHT**
- **SPECIFIC DEVELOPMENTS ON DEMAND**



TIMES

MECANO ID manufactures Hyperstable Carbon Tubes from carbon fabric or carbon fiber and epoxy resin using RTM (Resin Transfer Molding) process. With the investment of new means enabling AFP (Automated Fiber Placement), stability performances and repeatability have been increased while allowing serial manufacturing.

A means of thermal stability measurement, developed internally, allows internal capacity of development and production validation offering reactivity and reliability to our

customers.

Our space-qualified hyperstable carbon tubes are also validated by a series of acceptance tests: mechanical compression, ultrasonic, micrography, void volume ratio determination and differential scanning calorimetry (DSC).

We propose both standard hyperstable carbon tubes like defined in our catalog with pre-defined diameters (Ø50 to Ø100) and layups and specific hyperstable carbon tubes to answer our specific customers' requirements.

MECANO ID designs and builds dominantly mechanical and thermal subsystems for spacecraft instruments, equipments or structures. For any specific need or any question, you could contact us at: busdev@mecano-id.fr - +33 534 608 400