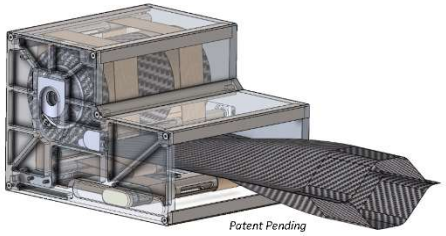
Booms



Key Benefits

- Fully Retractable
- Constant load through deployment
- No twisting in deployment
- Higher compaction
- Higher load
- Larger apertures
- Custom 30-meter oven

Key Features

- Flight Heritage
- Lower mass
- Closed cross section
- Lower cost
- Greater scalability
- Greater dimensional stability

OPTERUS
ADVANCED STRUCTURES

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Slit-Tube

Opterus has advanced the current state-of-the-art slit-tube boom manufacturing processes enabling autoclave quality composite booms using out of autoclave processes. These processes are low-cost, increase flexibility in boom production, and produce extremely high quality, wrinkle free surface finishes. With multiple slit tubes flown, this boom is Opterus' most cost-effective and most compactly rolling boom offering.

Living Hinge Boom (LHB)

Opterus' patent pending Living Hinge Boom features a fully closed circular cross section. This architecture enables extremely short boom transition lengths paired with narrow-packaged widths that maximize compaction and improve strength and stiffness. Scalable to small and large cross section diameters, Opterus' LHB manufacturing process offers increased structural performance compared to slit-tubes while maintaining simple manufacturing processes for rapid, low-cost fabrication.

Collapsible Tubular Mast (CTM)

Opterus' most precise boom architecture, the patent pending CTM features a fully enclosed lenticular cross section. This architecture enables shorter boom transition lengths for greater compaction and greater strength and stiffness enabled by the closed cross section. Scalable to small and large cross section diameters, Opterus' multi-step CTM manufacturing process is highly adaptable to a variety of boom scales with minimal lead time and cost.

Trussed Collapsible Tubular Mast (TCTM)

Opterus' most robust boom architecture, the patent pending TCTM features truss class structural performance. Offering the highest stiffness, strength, and precision this highly scalable boom architecture is ideal for large deployable space structures supporting high loads.