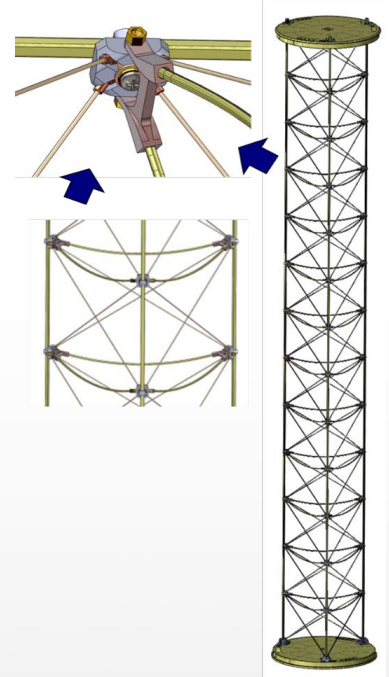


# DEPLOYABLE STRUCTURE SYSTEM PRODUCTS – OPEN LATTICE MAST (OLM)

- ✦ The Redwire Company's Open Lattice Mast (OLM) is a self-deploying low mass, thermally and structurally stable, space flight boom engineered for positioning, instrument antennas, integrated antenna systems, and other sensors.

Offering the highest specific stiffness metrics (stiffness/mass) of any deployable structure, the OLM deployer is easily configured for stiffness, strength, thermal stability and low mass requirements. The OLM solution ranges in sizes from <1-m to > 100-m boom length capability, and 15 cm to 1-m boom diameter capability.

The OLM is configurable as a lanyard self-deployed system, a nut-driven deployed system, or a carousel-deployed system. The solution enables a broad range of applications including high-precision (arc-second) optics deployment to very small/short or large/long spacecraft deployment systems.



## APPLICATIONS

- ✦ Magnetometer deployment
- ✦ Instrument deployment
- ✦ Antenna deployment
- ✦ Solar array deployment
- ✦ Sensor deployment
- ✦ Camera deployment

## MODULAR DESIGN

### Boom Diameter

- ✦ Selected for optimized stiffness and strength for payload stability and position accuracy
- ✦ Heritage OLM design diameters range from .15m (6") to 1m s include

### Boom Length

- ✦ The OLM's modular construction can be implemented to specified deployed lengths
- ✦ Heritage OLM design lengths range from <1m to 100m
- ✦ Stowed boom length typically <2% of deployed length
- ✦ Canister and payload additional height dependent on application

Deployable Structure System Products are export controlled through an ECCN (Export Control Classification Number) issued by the United States Department of Commerce, ECCN 7A104. Export shipment requires successful application for an export license.



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## MARKETS SERVED

- + Low Earth Orbit (LEO)
- + Middle Earth Orbit (MEO)
- + Geosynchronous Earth Orbit (GEO)
- + Interplanetary Orbit
- + Lunar and Mars Landers

## HERITAGE EXPERIENCE

- + SWFO
- + SAFE
- + EOS-AM
- + Galileo
- + Mars Pathfinder
- + Cassini
- + Lunar Prospector
- + GGS
- + GOES N/O/P
- + GOES R/S/T
- + DSX-Z
- + MMS

For more information about our space capabilities,

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### HERITAGE

Redwire is a new leader in mission critical space solutions and high reliability components for the next generation space economy. With decades of flight heritage combined with the agile and innovative culture of a commercial space platform, Redwire is uniquely positioned to assist its customers in solving the complex challenges of future space missions. For more information, please visit [www.redwirespace.com](http://www.redwirespace.com).

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