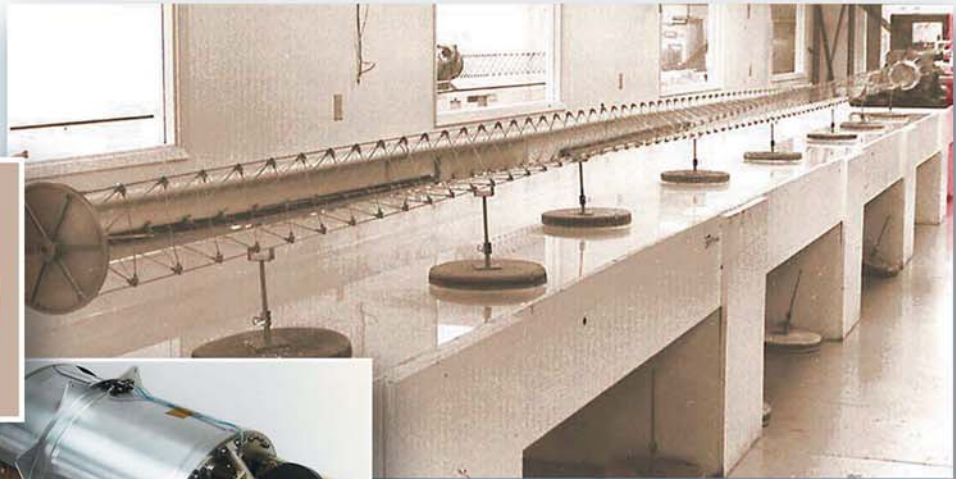
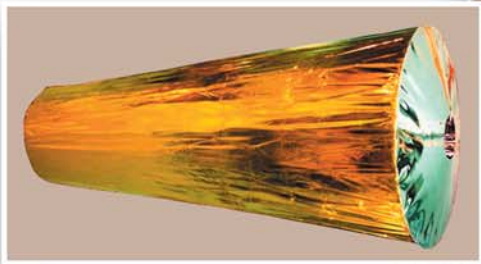


SOLAR SAIL ASTROMAST®



SOLAR SAIL ASTROMAST®

Description:

The Solar Sail AstroMast® uses the solar wind to balance large spacecraft on orbit. The sail size and sail deployment distance provide a counter torque to other large deployable structures such as large reflectors and/or large solar arrays. This reduces fuel usage and extends on-orbit life. Six of these masts are currently on orbit. The support for the Solar Sail is an AstroMast® that has extensive flight heritage and a 100% on-orbit success record.

Specifications:

Item Description	Performance
Boom length	737 in
Boom weight incl. Sail and Boom	26.4 lb
Boom weight/unit length	0.013 lb/in
Boom diameter	9 in
Bending strength	174 in-lb
Bending stiffness	2.8×10^6 lb-in ²
Deployment control	28V motor or passive damper
Sail length	172 in
Sail width	76 in diameter cone
Distance center of pressure is above base	Approx. 650 in

