

Custom Precision Springs—Engineered for Aerospace Innovation

At Tokai Spring, we design and manufacture **high-precision springs** for **critical aerospace applications**—from rockets and satellites to asteroid exploration systems. Our springs support vital functions such as deployment systems, release mechanisms, and payload instruments, where reliability and precision are essential.

Specializing in **small-lot production** (1 to 5 pieces), we work **with complex designs** and **advanced materials** that many others cannot handle. Even without detailed drawings, we provide **full support** from concept to completion.

Through close collaboration with aerospace agencies and research teams, we help turn ambitious space **missions** into **reality**—with Japanese craftsmanship and proven performance.



ROUND BARS & WIRES & SHEETS

- -Special Steels
- ·Nickel alloy X750
- ·Nickel alloy 718
- ·Stainless steel
- ·Beryllium copper
- Titanium

- -Spring Steels
- •51CrV4
- •55SiCr6-3



MADE IN JAPAN

Contact us for more information>>>>



TOKAI SPRING Industries, Inc.

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Our New Solutions in Satellite Development





As a trusted spring manufacturer, we specialize in high-precision metal STEMs engineered for demanding aerospace environments. Designed with exceptional straightness and optimized for minimal weight, our STEMs have demonstrated ideal deployment performance in space. With proven capabilities in extension lengths of up to 5,500 mm, we can manufacture to your exact specifications—any length, width, or custom requirement.

Partner with us for **reliable**, **high- performance components** that meet the rigorous standards of the aerospace industry—without adding unnecessary mass.

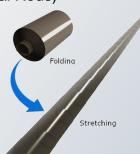


Expandable Antenna Mounted on CubeSat



Telescopic Boom for Deploying Panels and Membranes on Small Satellites

Rigid SSRs (Space Spiral Rods)



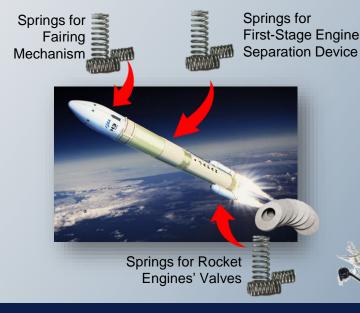
Our innovative SSRs can extend up to **6,500mm** from their compact stowed position in an instant. Once extended, they offer **exceptional rigidity and structural stability**, outperforming traditional STEM designs in terms of **strength and stiffness**.

Ideal for applications including:

- Dipole Antennas
- Deployable Panel Booms
- Attitude Control Systems



Track record of general metal springs



Astronomical Telescope

Springs for

Sampler Mechanism

Springs for

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