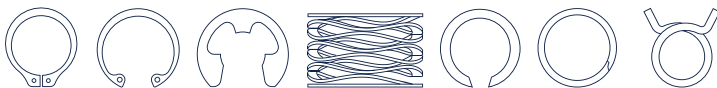




Application Driven Solutions for the Aerospace Industry



RETAINING RINGS • WAVE SPRINGS • HOSE CLAMPS

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About Us



Rotor Clip is your trusted manufacturer of standard and custom retaining rings, wave springs, and hose clamps. With over 20,000 standard parts, custom capabilities, and manufacturing in the U.S. and EU, we specialize in delivering the right solutions for every application. Our engineers work directly with you to determine the best product, material, and finish for your specific requirements.

With decades of experience in the aerospace and defense industry, our solutions have been successfully integrated into thousands of applications, helping reduce vibration, saving weight, and optimizing space in aircraft and defense systems. From flight controls and landing gear to actuator and electrical assemblies, we ensure you get exactly what you need, when you need it.

Our Products



Retaining Rings

*Every Ring, Every Style,
One Manufacturer™*

The only manufacturer of every style of retaining ring (spiral, tapered section/circlip, constant section/snap ring).



Wave Springs

Save Space & Weight

Whether you are looking to reduce space, take up tolerances or provide a preload, our wave springs are offered in single-turn and multi-turn configurations.



Hose Clamps

Eliminate Manual Adjustments

Our self-compensating hose clamps eliminate manual adjustments and enable efficient installation.

The Parts You Need to Build

A Trusted Choice in Aerospace

Spiral Retaining Rings

Reliable Retention for Flight Systems

Spiral retaining rings provide a 360° retaining surface for uniform load distribution and secure retention in aerospace assemblies. Highly customizable in materials and configurations, their lug-free, flat-wire design prevents interference with mating components while ensuring consistent performance under vibration and thermal stress.



Multi-Turn Wave Springs

Space & Weight-Saving Solutions for Aerospace Applications

Multi-turn wave springs are a preferred choice in aerospace assemblies for their space-and-weight-saving design, saving up to 50% axial space compared to traditional coil springs. Engineers value their highly customizable design, including number of turns, number of waves, material thickness, and more, allowing performance to be tailored to exact aerospace specifications.

Stocked & Custom Materials

Rotor Clip offers a wide range of materials including spring steel (SAE 1070–1090), stainless steels (302 & 316), and specialty alloys such as Inconel and Elgiloy, engineered for demanding aerospace environments. With over 100,000 sq. ft. of raw material storage, we ensure reliable availability when your program needs it. Materials, passivation, plating, and packaging can be tailored to meet exact requirements, with engineering support to help identify the right solution for each application.

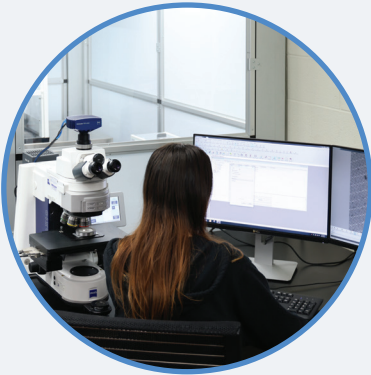


Rotor Clip retaining rings, spiral rings, and wave springs may be small, often hidden deep inside an aircraft, but they play a critical role in helping to keep you flying.

SEE OUR PARTS IN ACTION

A Partnership from Design to Flight

At Rotor Clip, we design, prototype, and manufacture in-house, ensuring every part is engineered for quality and meets your exact specifications. This approach reduces lead times, prevents delays, and delivers the reliability and precision critical to aerospace applications.



Quality Control

AS9100 and ISO 9001 certified, Rotor Clip ensures strict process control and on-time delivery. In-house cleanliness testing, metallurgical inspection, ultrasonic washing, and tensile testing ensure material integrity and precision. NADCAP-certified heat treating and passivation are available through qualified suppliers to meet aerospace standards.

End-to-End Manufacturing

From raw material processing to final production, our fully integrated manufacturing approach ensures complete control over quality, consistency, and process integrity. This enables precise, repeatable performance for critical aerospace applications.



Reliable Supply

Strategic safety stock, extensive raw material reserves, and weekly shipments support consistent availability and just-in-time delivery. This ensures continuity, enables rapid scaling, and allows us to respond quickly even as demand fluctuates.

Engineering Support & Custom Solutions

Our engineers partner with customers on design optimization, custom development, and application-specific solutions for complex aerospace requirements. We ensure designs are validated for performance, manufacturability, and long-term reliability.



Global Reach, Local Expertise

We believe quality products start with quality markets. We manufacture exclusively in the US and Europe, where strict industry standards, precise processes, and rigorous quality control ensure the most reliable products on the market. With strategically localized manufacturing and warehouses, we support growing sustainability initiatives by placing our products closer to your assembly lines.

Our global engineering network combines worldwide knowledge with local expertise. Backed by regional customer service teams, we provide fast response times and reliable supply chain solutions. Whether you need standard or custom solutions, we are ready to support your aerospace applications across every stage of production.



Thousands of Applications, Millions of Products

Our retaining rings, wave springs, aerospace piston rings and hose clamps are essential across all stages of aerospace design and assembly, from propulsion and actuation systems to cabin interiors and landing gear. Engineered for precision and durability, they ensure critical components remain secure and perform reliably under extreme conditions.



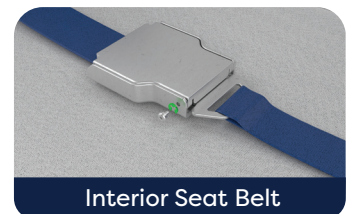
Aircraft Entry Door GC



Air Valve



Interior Attendant Area Hinge



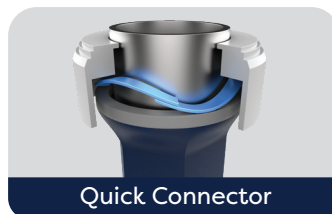
Interior Seat Belt



Plane Engine



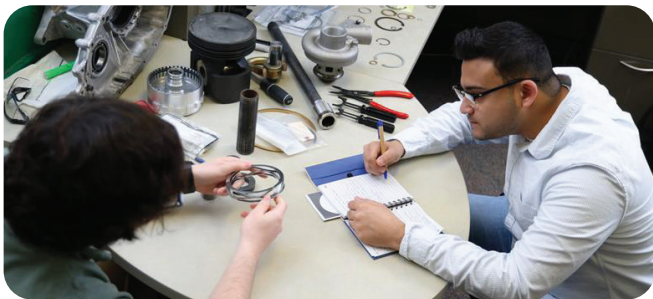
Landing Gear



Quick Connector



Electrical Bay



Engineered for Quality, Backed by Traceability

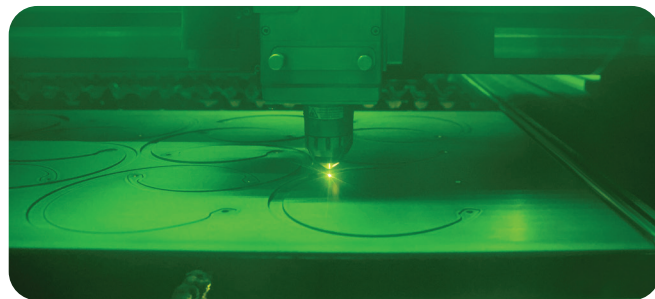
Every Rotor Clip retaining ring, wave spring, and hose clamp is supported by complete production traceability. Each part is linked to its material source, heat treatment, and inspection data, providing full documentation and dependable quality assurance. Designed to meet global aerospace and defense standards, our products deliver verified performance and accountability you can trust from production to installation.



Custom aerospace piston and seal rings developed for bleed valve, delivered quickly to bridge supply chain gaps.

Advanced Manufacturing Expertise

With decades of experience in ring stamping and coiling, we leverage deep engineering expertise to develop innovative solutions for the market. Our knowledge of raw material production and manufacturing processes allows us to adapt quickly, supporting the development of specialized components beyond our standard range, tailored to meet unique application requirements and marketplace needs.



Design Support and Rapid Prototyping

Rotor Clip engineers and optimizes application-specific retaining ring and wave spring solutions, delivering production quality prototypes that enable efficient validation and accelerated transition to production.

- ✓ Custom part design and development
- ✓ Application-specific tolerances, materials, geometry
- ✓ Production quality prototypes for fit and function validation
- ✓ Rapid design refinements



Convert AS and MS Series to Rotor Clip Equivalents

Rotor Clip products are designed to interchange with Aerospace Standard (AS), Military Standard (MS), and Aerospace Military parts. Our Part Search Tool at **rotorclip.com** helps you quickly identify Rotor Clip equivalents to these specifications, supporting accurate part selection and streamlined sourcing.



Retaining Rings ▾ Wave Springs ▾ Hose Clamps ▾

MS16624-1025

SH-25ST MCD

Rotor Clip Military/Aerospace Part
Part Number: MS16624-1025

View all

Specification	Rotor Clip Part Series	
MS16625		HO
MS16627		HOI
MS16629		BHO
MS16631		VHO
MS16624		SH
MS16626		SHI
MS3217		SHR
MS16628		BSH
MS16630		VSH
MS16633		E
MS3215		RE
MS16634		BE
MS16632		C
MS3216		EL

Specification	Rotor Clip Part Series	
AS90708		LC
MS90707		SHF
AS3218		CM
AS3216		CG
AS3217		KM
AS3215		KG
AS3472		KG/KM
MA4016		MCA/MCG
MA4017		MKA/MKG
M27426/1		CM
M27426/2		CG
M27426/3		KM
M27426/4		KG

MS Code	Ring Type	Material & Finish	Rotor Clip Suffix
1	Tapered	Carbon Steel Cadmium Plated	ST MCD
2	Tapered	Carbon Steel Zinc Dichromate Plated	ST MZD
3	Tapered	Carbon Steel Phosphated	ST MPD
4	Tapered	Stainless Steel Passivated	SS MPS
5	Tapered	Beryllium Copper	BC MTM
5***-1	Tapered	Beryllium Copper Cadmium Plated	BC MCD
A	Spiral	Carbon Steel Plain	ST SPM OIL
B	Spiral	Carbon Steel Cadmium Plated	ST SPM MCD
C	Spiral	Carbon Steel Phosphated	ST SPM MPD
D	Spiral	Stainless Steel Passivated	SJ SPM MP3



Reaching New Heights with **Ring & Spring Innovation**

From launch systems to spacecraft, payloads and beyond, space applications demand absolute reliability and precision in the harshest conditions – extreme temperatures, vacuum environments and more, leaving zero margin for failure.

Rotor Clip products are engineered to maintain consistent load, fit, and retention through launch vibration, thermal extremes and vacuum exposure, supporting mission-critical space assemblies.



Certified to Manufacture for the **Defense Industry**

Some projects require standard retaining rings and wave springs. Others are unique and need to be custom made. No matter what, you have to make sure you have the right ones in your defense equipment.

Rotor Clip is equipped to meet the demands of the defense industry, manufacturing retaining rings and wave springs that comply with strict military standards while ensuring traceability, consistency, and dependable performance.

Rotor Clip offers 100% military-certified retaining rings that are:
DFARS Compliant • DDTC Registered • Made in the USA

