

5/6/25

For Immediate Release

Rotor Clip Launches New Educational Video: What is a Wave Spring?

(Somerset, NJ) Rotor Clip has released a new video to help engineers better understand wave springs and how they offer a reliable alternative to traditional springs. In addition to saving space and weight, wave springs can reduce assembly height and streamline the number of components in an application. Now live on Rotor Clip's website, this video breaks down the functions and technical advantages of wave springs, highlighting why they are the ideal choice.

A wave spring is a type of flat wire compression spring with a unique waveform-like structure. Unlike traditional coil springs that produce forces through torsion, wave springs generate forces through bending. This allows them to compress and expand while occupying up to 50 percent less axial space, providing engineers with more flexibility in their designs.

"Many engineers are still defaulting to traditional coil springs, but this video shows why it's worth taking a second look," said Craig Slass, Co-President of Rotor Clip. "Our goal is to make it easy to understand how wave springs work and how they can help solve space and weight challenges across industries."

Rotor Clip offers a full range of wave spring configurations; each suited for specific applications from electric motors and fluid pumps to surgical tools and aerospace systems. Our wave springs reduce spring height and weight and can improve overall assembly function.

- **Multi-Turn Wave Springs:** Provide the same force as coil springs but at half the height, maximizing space and weight savings.
- **Single-Turn Wave Springs:** Commonly used for bearing preload and tolerance take-up.
- **Nested Wave Springs:** Increase load capacity in direct proportion to the number of turns, allowing for nearly unlimited force generation.
- **Round-Wire Wave Springs:** Ideal for generating heavy loads in tight spring cavities and are often compared to single Belleville washers or disc springs.
- **Linear Wave Springs:** Offer an excellent option for applications requiring preload in a straight groove or channel.

The new video is part of Rotor Clip's ongoing effort to provide engineers with the knowledge and resources they need to design smarter and more efficient systems. Watch



187 Davidson Avenue
Somerset, NJ 08873 USA



+1.732.469.7333



info@rotorclip.com



rotorclip.com

the full video on our website at rotorclip.com/resources/what-is-a-wave-spring/ or on our YouTube channel at youtube.com/watch?v=DUYQCskbn7A&t=18s.

Rotor Clip engineers are always available for assistance in selecting the right part. Whether it is a standard or providing free design consultations on custom parts, we're focused on providing Application Driven Solutions®. For more information, please contact info@rotorclip.com or call +1.732.469.7333. rotorclip.com

-Ends-

PR Contact: Lane Persky • Chief Marketing Officer • +1.732.469.7333 ext. 2271 • Lane.Persky@rotorclip.com

About Rotor Clip:

As the global leader in the manufacture of retaining rings, wave springs, and self-compensating hose clamps, Rotor Clip serves all manufacturing industries, including automotive, aerospace, defense, energy, medical and beyond. As the sole manufacturer of all retaining ring families (spiral, constant section, tapered), Rotor Clip engineers and delivers Application Driven Solutions® from our global manufacturing facilities and warehouses. ISO 9001, ISO 14001, IATF 16949, AS9100, ISO 13485 certified.