TRU WAVE

Wave Springs & Spiral Rings



ROTOR CLIP.

Designed for Quality



www.rotorclip.com

+1.732.469.7333 • sales@rotorclip.com

Rotor Clip Company produces coiled flat wire spiral ring and wave spring products in addition to its full line of tapered and constant section retaining rings.

Customers can take advantage of vendor consolidation by purchasing all of these items from a manufacturer known for its quality and reliability around the world.

Certified to: ISO/TS 16949 ISO 9001 AS9100 ISO 14001

Online Specs: www.rotorclip.com

SPIRAL RINGS

These rings provide the following advantages:

- · 360° contact with the groove.
- · No stamping burrs that can damage shaft/housing.
- · Capable of withstanding higher axial loads than stamped parts.



Spiral rings are available in numerous configurations to tolerate a wide range of thrust loads.



TruWave SPIR AL RINGS

This product combines a standard spiral ring with a wave spring by having an axial wave form in a retaining ring design.

- Ideal for compensating axial play because of tolerances, thermal expansion, etc.
- · Provides more points of contact compared to a bowed retaining ring.
- · Eliminates shims.

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The waves of the internal NKG (L) and external NCG (R) TruWave rings compensate for accumulated tolerances.

MATERIALS AVAILABLE

Carbon Steel • Stainless Steel (AISI 302 & 316, PH-17-7) Beryllium Copper

FINISHES AVAILABLE

Oil Dip • Passivation • Zinc Phosphate



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TruWave WAVE SPRINGS (SINGLETURN & MULTI TURN)

- Space savings in axial direction 50% of the operation height could be reduced versus a coil spring.
- Bending load in the waves guarantees 100% axial transmission of load.
- Requires handling of only one spring compared to stacked disc springs / wave washers.
- Unlimited range of forces could be created by using the factors of wire size, wire form, number of turns, turn configuration, number of waves, and wave form.



Rotor Clip Wave Spring part numbers:



Coil Spring TruWave Wave Spring





GAP SINGLE TURN/OVERLAP SINGLE TURN:

Metric(MST)/Standard Inch (SST)/Narrow Inch (NST)

MULTI-TURN PLAIN ENDS/ MULTI-TURN SHIM ENDS:

Metric: Light (MWL)/Medium (MWM)/Heavy (MWR) Inch: Light (WSL)/Medium (WSM)/Heavy (WSR)

MATERIALS AVAILABLE

Carbon Steel • 17-7 Stainless Steel • AISI 302 Stainless • AISI 316 Stainless • A286 Inconel X-750 • Elgiloy • Hastelloy C276 • Beryllium-Copper • Phosphor-Bronze

FINISHES AVAILABLE

Oil Dip • Vapor Degreased & Ultrasonic Cleaned (Stainless) • Passivation • Black Oxide • Phosphate • Vibratory Deburr

WAVE SPRING / SPIRAL RING INTERCHANGE

ROTOR Spirolox® Smalley® CLIP® TR/TB SSR SST NST SSR Size-N MST TR/TB SSB WSL CML C/CS WSM CMM C/CS WSR **CMH** C/CS MWL CM/CMS MWM CM/CMS MWR CM/CMS

WAVE SPRINGS

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ROTOR CLIP®	Spirolox®	Smalley®	ROTOR CLIP®	Spirolox®	Smalley®
KL	UR	VH	MKM	ZRM	- 14
CL	US	VS	MCM	ZSM	- 2
KM	RR	WH	MKR	ZRT	- 4
CM	RS	WS	MCR	ZST	
KR	RRT	WHT	MKG	ZRH	
CR	RST	WST	MCG	ZSH	
KG	RRN	WHM	KLM		VHM
CG	RSN	WSM	CLM		VSM
DKR		DNH	MKA		EH
DCR		DNS	MCA		ES
DKL		FH	NKG		WHW
DCL		FS	NCG		WSW
KLR		FHE			
CLD		FOE			

ALL RINGS HAVE A FUNCTION

Any Company Can Make a Retaining Ring, But Only Rotor Clip Can Make Them All



We Offer Choice: We Provide Solutions.

We don't waste your time trying to sell you a certain ring because that happens to be the only one we make.

It's about your application and what you need to make it work. Tapered Section, Spiral, Constant Section... One isn't "better" than the other. But one can save you money over the others, if you select the right one for your requirements.

Let our engineers help you find the one ring that works best for you, not the one that's best for us to sell you.

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Rotor Clip®

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