

Zhejiang Lisheng Spring Co.,Ltd

Wave Spring & Spiral retaining rings

Lisprings®



summary

1 、 About Lispring company

2 、 Certification

3、 Wave spring

& spiral retaining rings

&Laminar Seal Rings

1、About Lisheng Spring

- Zhejiang Lisheng Spring Co., Ltd. Since 2009, the company has started to develop wave springs, spiral retaining rings, constant section rings and Laminar seal Rings.
- The company has successfully passed ISO9001、ISO13485、IATF16949、AS9100 quality management system certification. Our wave springs and retaining rings and Laminar seal Rings are mainly used in aerospace, automobile, petroleum, medical equipment, wind energy, construction machinery, consumer electronics and other industrial products fields .



2、Certification



- ISO 9001
- IATF 16949
- ISO 13485
- ISO AS9100
- ISO 14001

IPR (intellectual property protection)



- More than 30 registered trademarks from China, the United States, Germany, Britain, France, Italy, India, Israel.
- More than 20 patent certificates

3、 Type of Wave spring



**Plain ends
L/LM**



**Shim ending
LS/LMS**



**One turn (Gap)
LR/LB**



**One turn (overlap)
LR/LB**

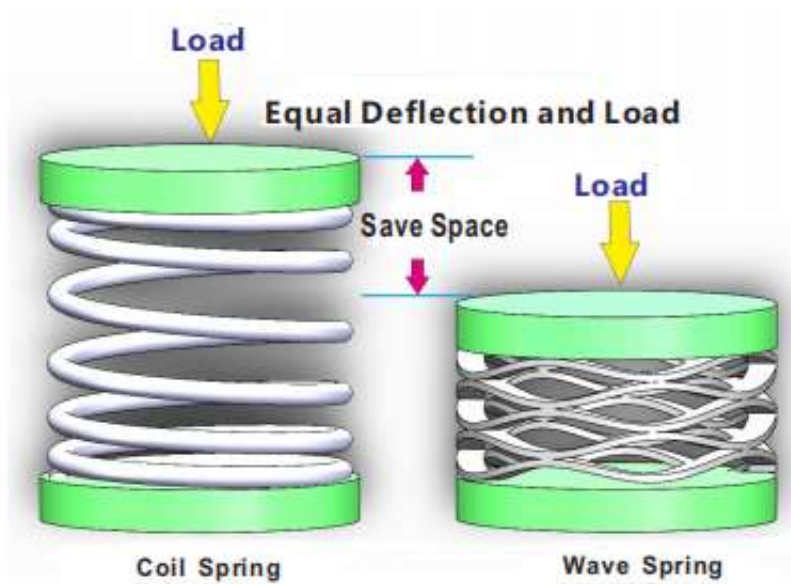


**Round wire
RW**



**Nested
wave spring**

Advantage of Wave Springs

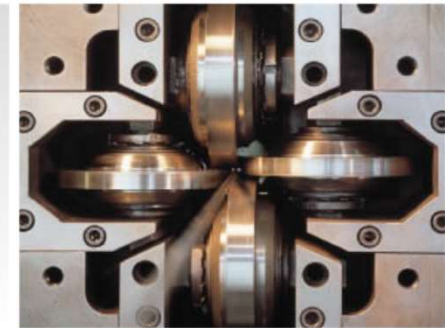
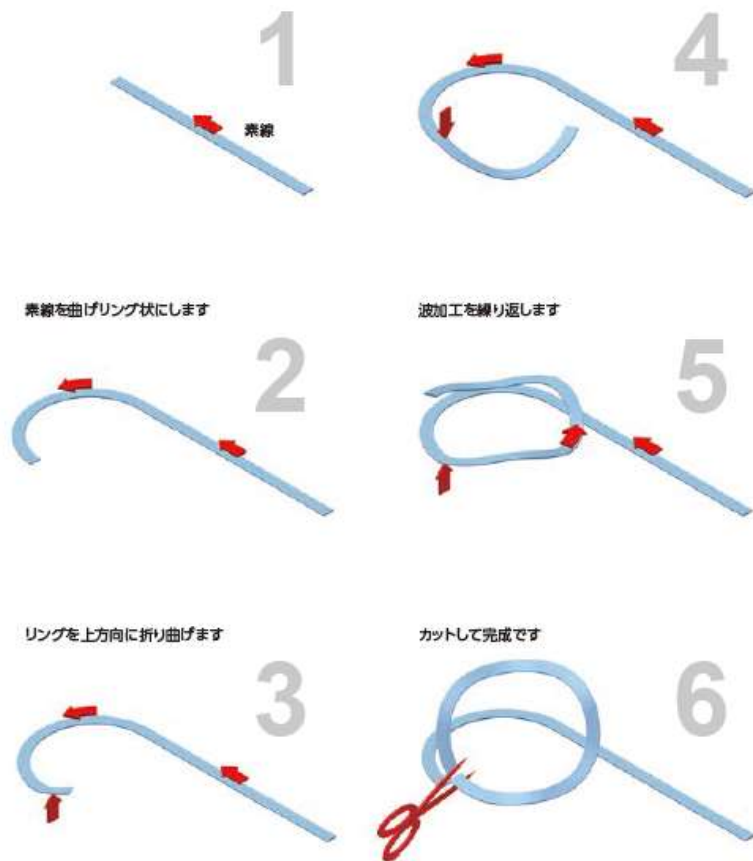


Coil springs require as much as twice the working height of a wave spring.

- Save up to 50% assembly space
- Have the same force and deformation
- Suitable for design with small assembly space
- Standard parts range in size from 4mm to 60mm
- More than 3000 kinds of carbon steel and stainless steel parts are in stock
- The size of specialty products ranges from 5mm to 2000mm

Technology of Wave springs

Perfect sine wave。



wiremill.MPG



waveprod-3-5-14.wmv

Type of Retaining rings



Spiral rings
VKM/VZM
EK/EZ
DNK/DNZ



**Constant
Section
Retaining
Ring**
WKT/WZT
WKM/WZM
FKE/FZE



Wave spiral rings
WKW/WSW



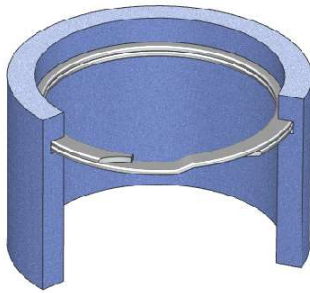
**Laminar
Seal Rings**
QH/QS
QHD/QSD



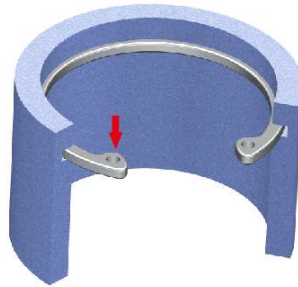
Hoopster rings
HH/HS

Advantage of Spiral Retaining Rings

Housing



Spiral Retaining Ring



Ordinary Snap Ring

Shaft



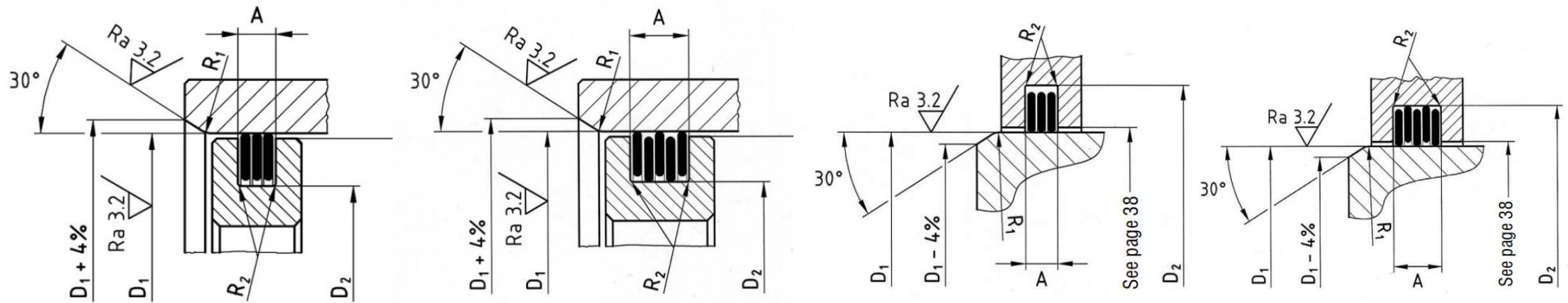
Spiral Retaining Ring



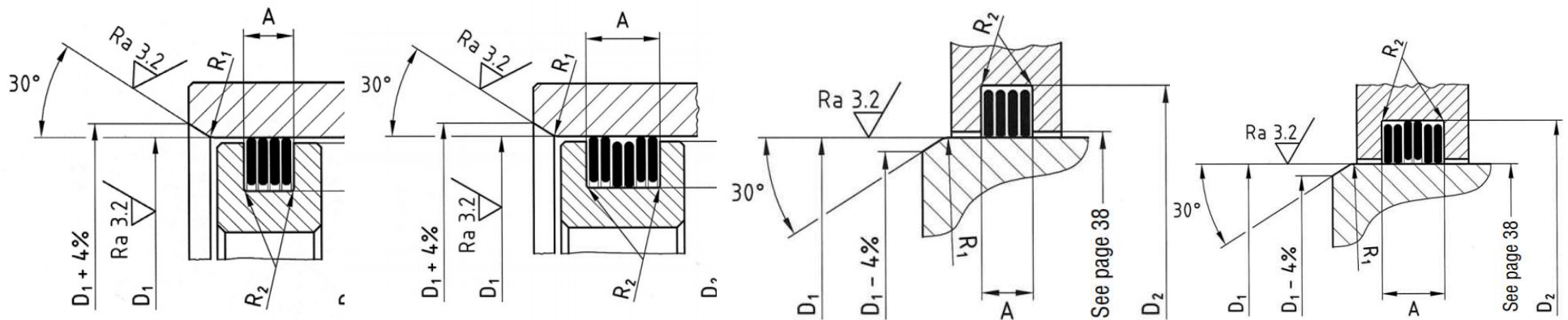
Ordinary Snap Ring

- The earless design does not interfere with other components
- Using ring crystal processing technology from winding, non - stamping
- Standard parts range in size from 6mm to 400mm
- Carbon steel and stainless steel parts inventory exceeds 2,000
- The size of specialty products ranges from 5mm to 3000mm
- Special materials such as alloy steel are added
- Easy to install and remove

Type of Laminar Seal Rings



Single laminar sealing rings combined for bores & shafts



Double laminar sealing rings combined for bores & shafts

Product application



Our crest to crest wave springs and retaining rings are mainly used in aerospace, automobile, petroleum, medical equipment, wind energy, construction machinery, consumer electronics and other industrial products fields.



THANKS !