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- Dedicated to the aviation industry, aiming at aero-engines precision metal sealing, such as C/W/E/U ring, Piston ring, Spiral retaining ring, Special-shaped Metal Sealing Ring;
- R&D driven, committed to build a pilot plant which make CAE analysis integrated into sealing ring design, leakage test simulation and ring manufacture;



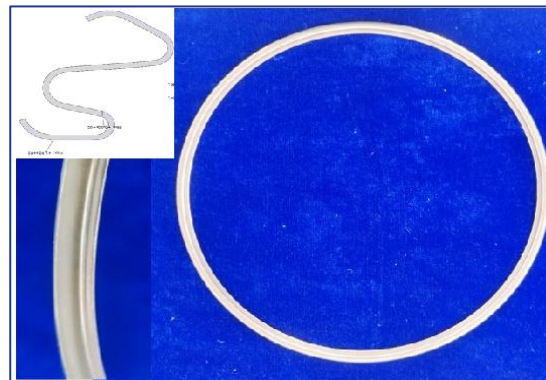
Typical Products



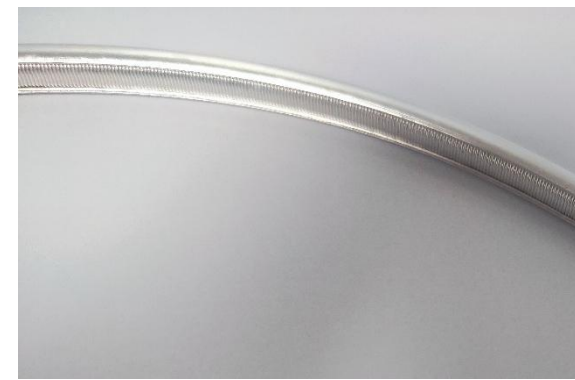
C/O/U-ring



E/M/W-ring



Irregular Cross-section Pipe



Spring energized ring



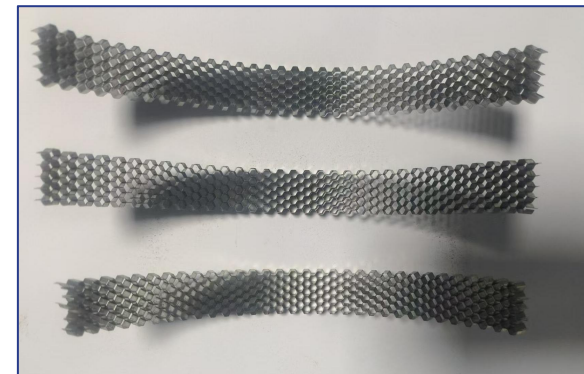
Serrated tip seal ring



Duct clamp flange



Piston ring



Honey comb



5-Axis Laser Cutting



5-Axle EDM



5-Axis Small Hole



200T Hot Forming



1500T Plate /Tube Hydro Forming



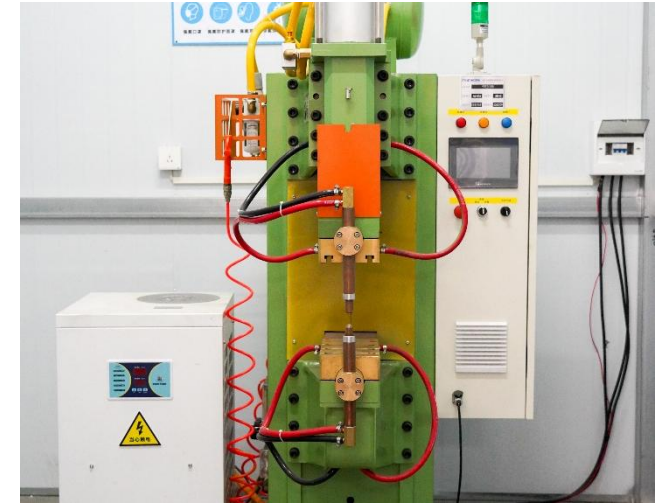
Spinning



Laser Welding



Pressurized DC Seam Welding

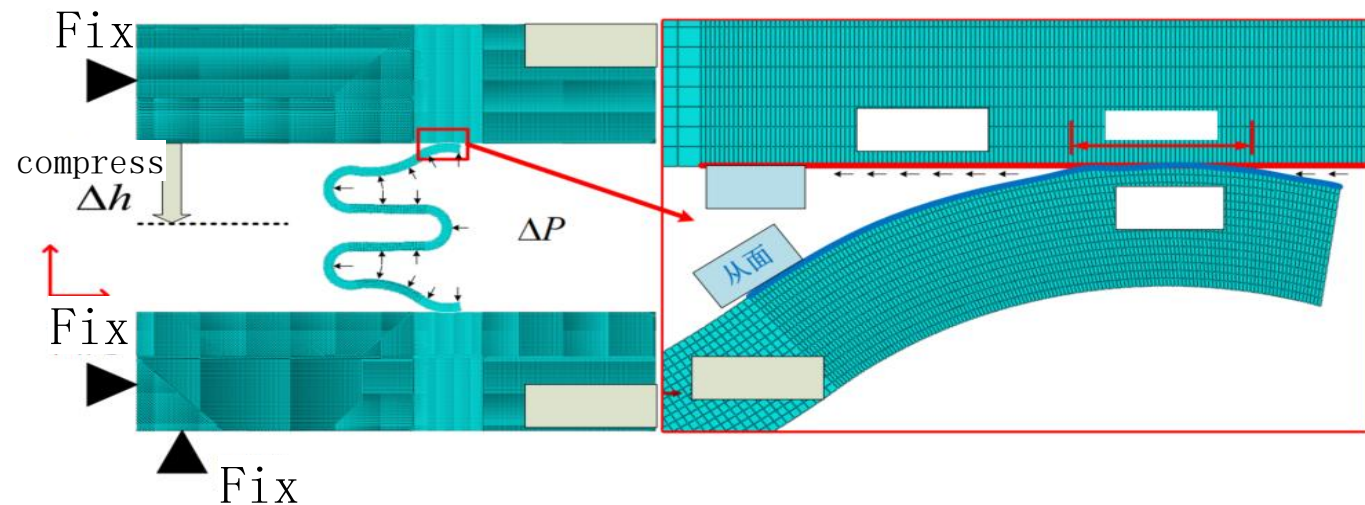
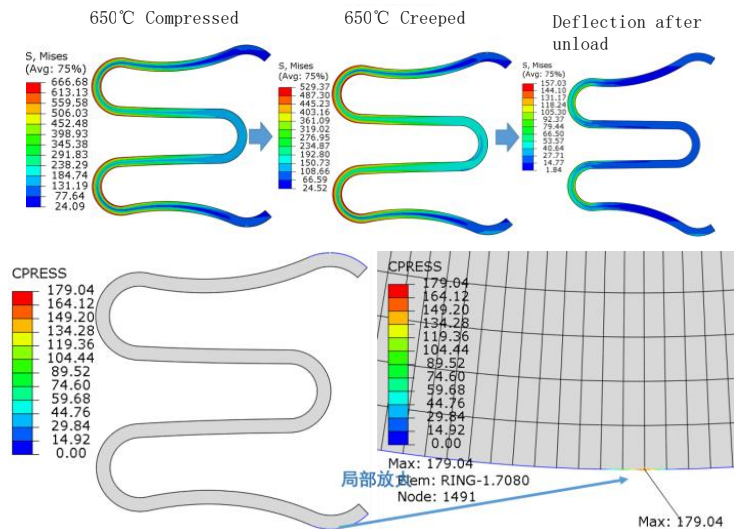


Resistance Point Welding

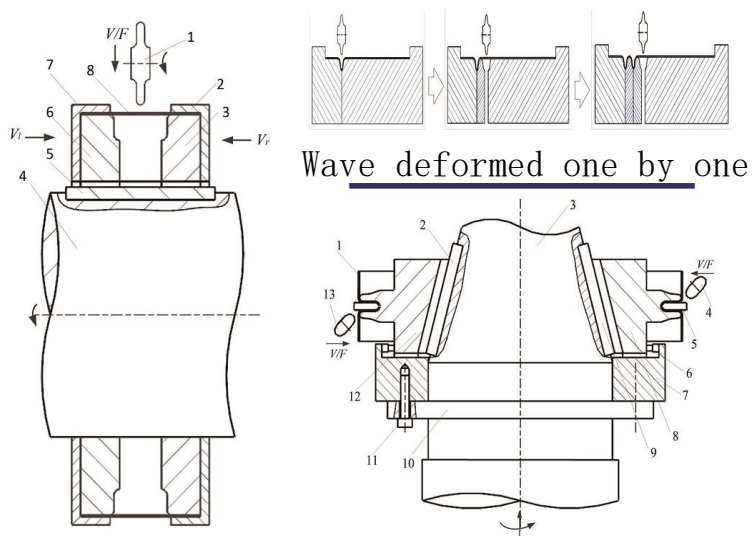
Vacuum Braze
WeldingElectron Beam Welding
(on the way)

Automatic Welding

- Simulation Design of Sealing Elements. Consider springback, contact pressure, contact bandwidth, creep fatigue and micro motion wear and so on;
- Leakage test simulation, room and high temperature. Consider surface roughness, coating hardness, contact pressure and the hardness of the contact parts.

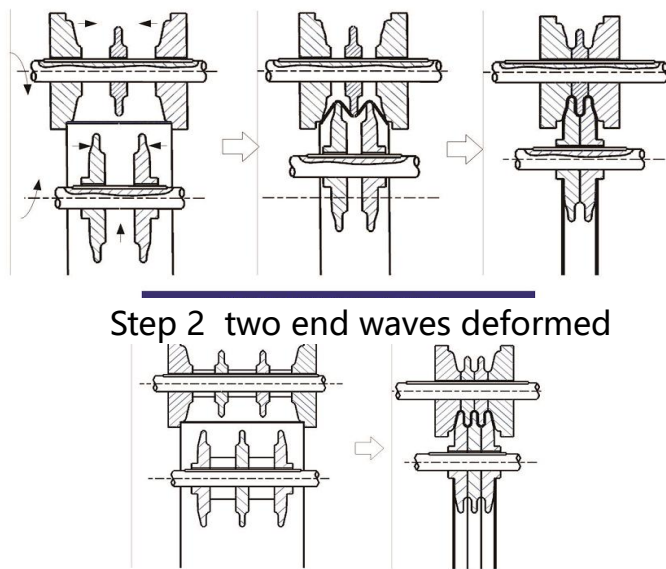


- New manufacturing methods for metal sealing rings, such as rolling, spinning, and bulging;



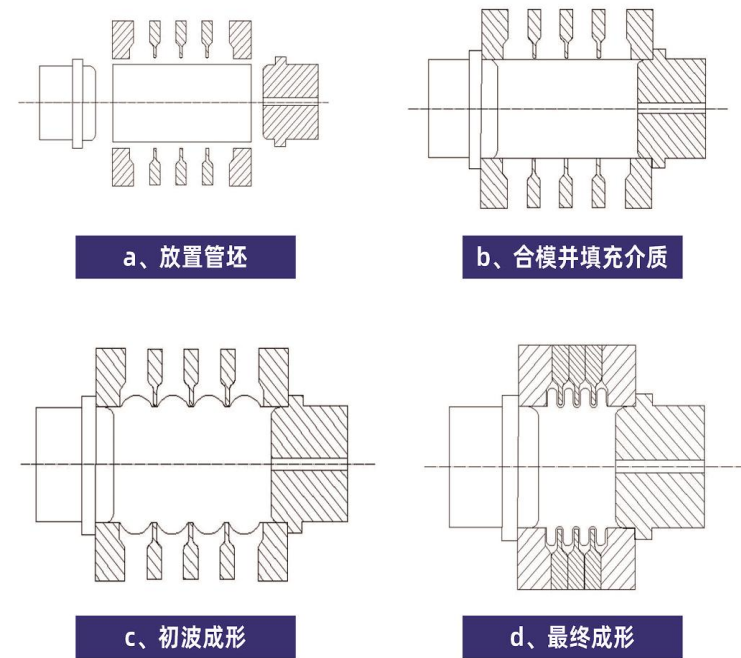
Step 1 middle wave deformed Step 2 two end waves deformed

Spinning steps



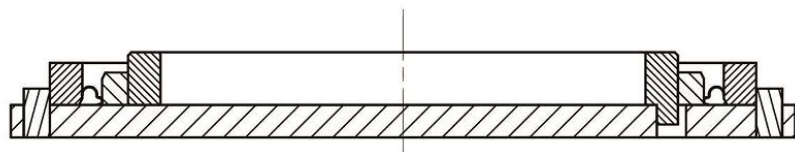
Step 2 two end waves deformed

Rolling steps

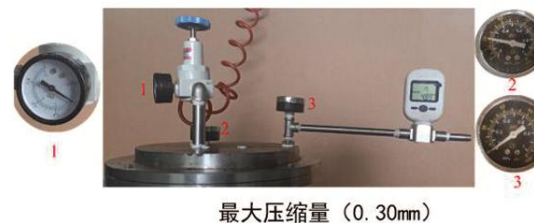
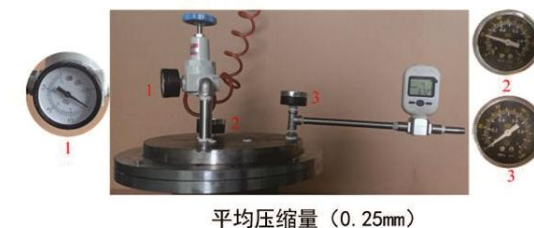
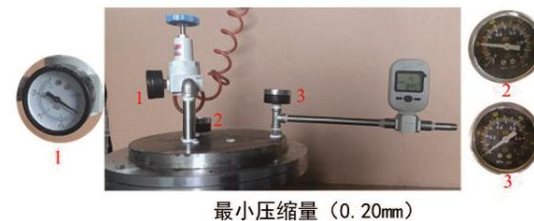
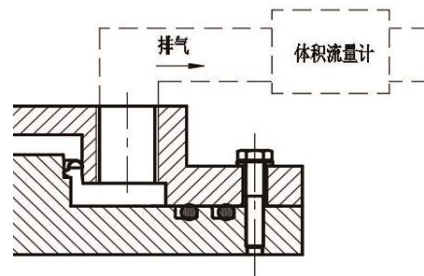


Bulging steps

- Sealing rings performance test research, include test tool and equipment design, cover room and high temperature. Test items: spring back, leakage , fatigue.



回弹及持久性能工装剖面图



回弹及持久性能工装实物



弹力测试设备



高温泄漏测试设备

密封泄漏量结果读取