

Application

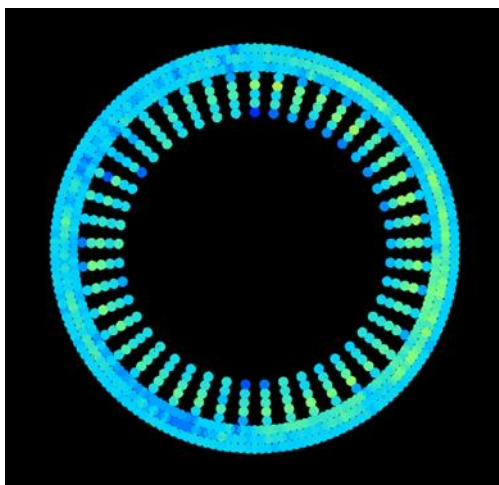
Residual Stress Measurement of Electrical Steel Sheets

- ◆ Residual stress analyzer (μ -X360s) with robot arm
- ◆ Check residual stress distribution by color mapping
- ◆ Large crystals grains can be measured by tri-axis oscillation.



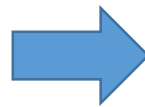
Check stress-relieving heat treatment effect

【Before heat treatment】

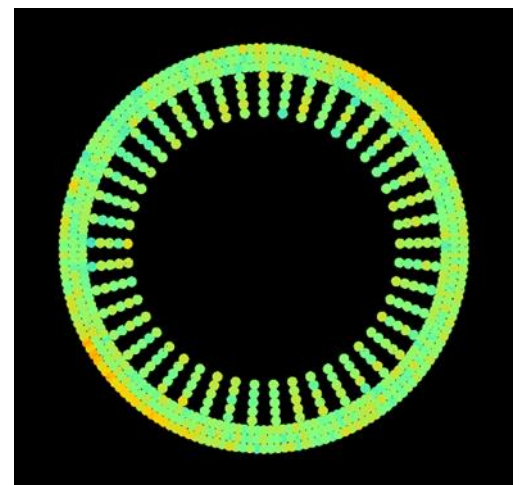


データ	
最大値	14
最小値	-92
コリメータ	$\phi 2.0$ mm

There is **compressive stress** on the core surface by rolling and punching.



【After heat treatment】



データ	
最大値	59
最小値	-23
コリメータ	$\phi 2.0$ mm

Compressive stress reduces and **tensile stress** increases slightly.

Possible to control residual stress to improve efficiency and core loss by checking stress relief heat treatment effect.