

Application

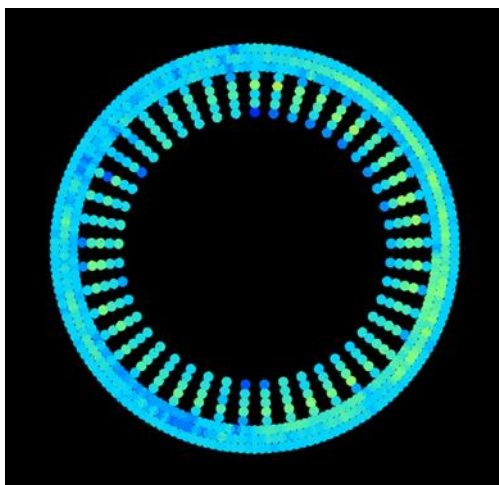
Residual Stress Measurement of Electrical Steel Sheets

- ◆ Residual stress analyzer (μ -X360J) 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

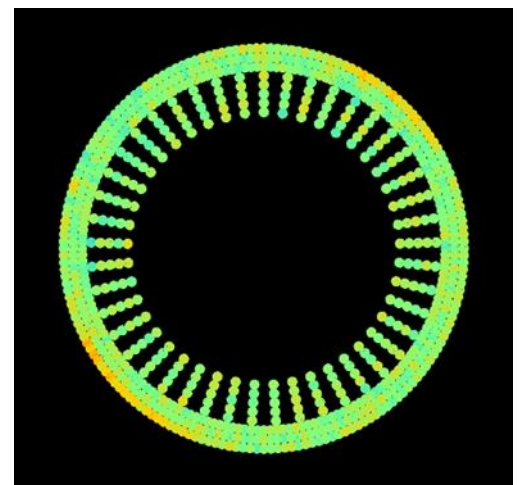
【Before heat treatment】



データ	
最大値	14
最小値	-92
コリメータ	φ2.0 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	φ2.0 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.