



# FUJIKURA COMPOSITES

## Torque Transfer Axle Related Technologies

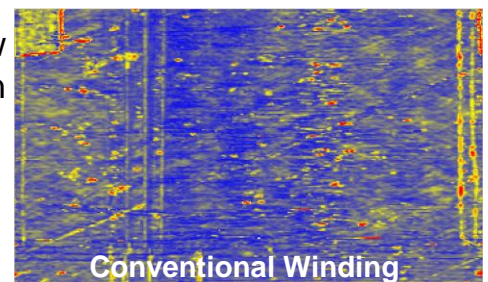
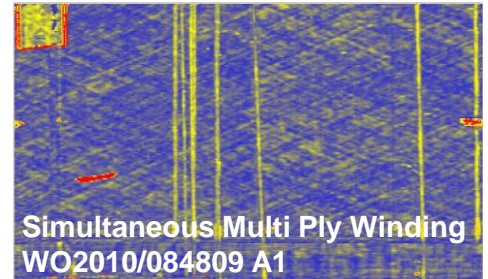
### High Accuracy **Sheet Winding**

Distortion of the fiber and void were minimized with the process and equipment\* which we developed.

Enhanced performance and stable quality

\*Patent No.4859975

Inner view by the ultrasonic inspection



### High **Strength**

The characteristics of material is maximized. Increased by 20% compared to conventional technology

### High **Stiffness**

Use of various fibers of the range from low elasticity to high elasticity is possible.

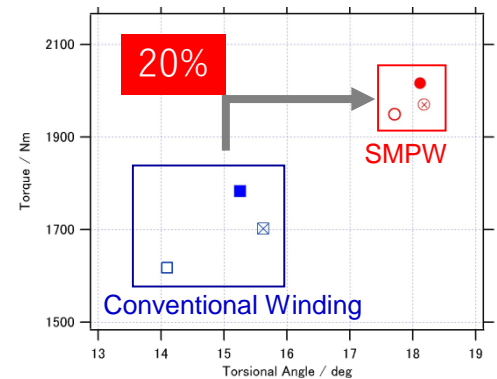
### High **Design Quality**

Outstanding numerical analysis technology. Manufacturing technology supported by proto type trials.

### High Reliable **Joint Technology**

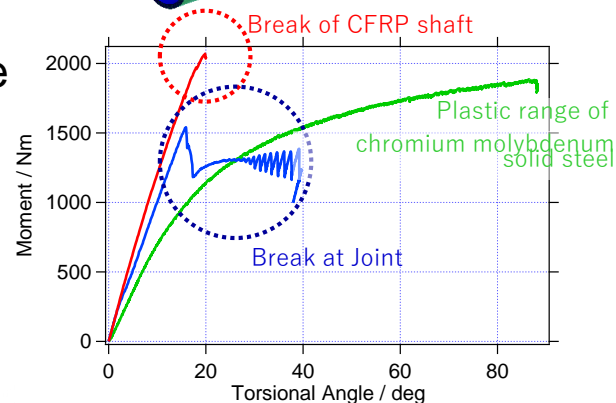
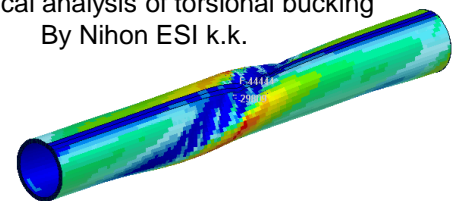
Various selectable joining method as usage

Special joint structure  
WO2011/024527 A1



Strength improvement by SMPW

Numerical analysis of torsional buckling  
By Nihon ESI k.k.



Strength evaluation of joint