

# **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







Numerical analysis of torsional bucking By Nihon ESI k.k. Break of CFRP shaft 2000 Plastic range of 1500 chromium molybdenum solid steel Moment / Nm 1000 Break at Joint 500 60 80 20 40 Torsional Angle / deg Strength evaluation of joint

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