

# Technology to Improve the Formability of Ultra High-Tensile Strength Steel Sheets and Reduce the Forming Load: Warm-Forming Technology

**Effect**

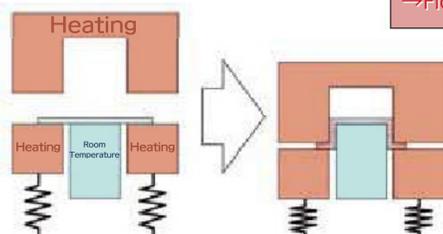
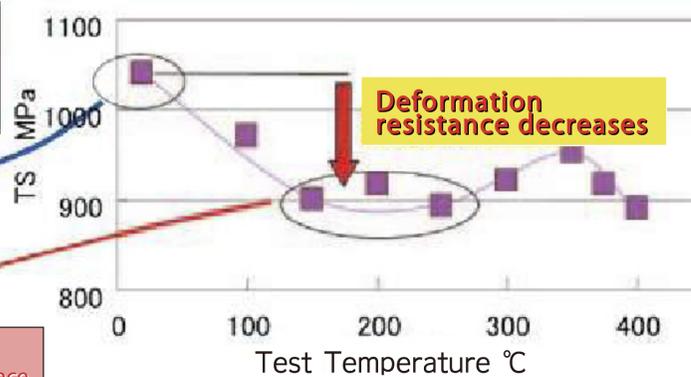
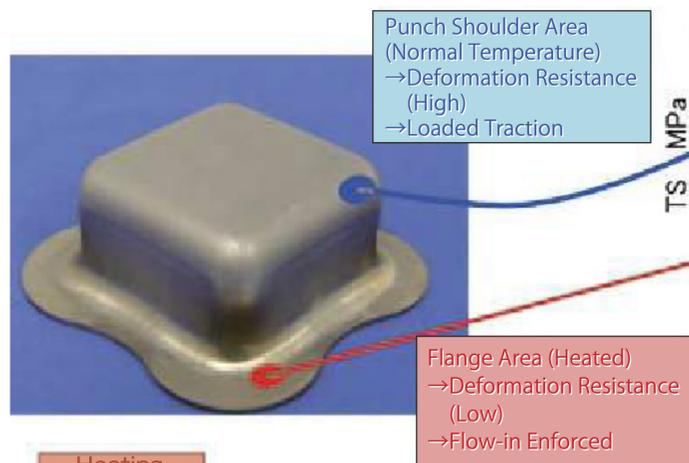
- Strengthening and Weight Reduction of Body in White Parts
- Reduction of Forming Load while Press Forming

**progress**

1. Under Development
2. Development Completed
3. Commercialized

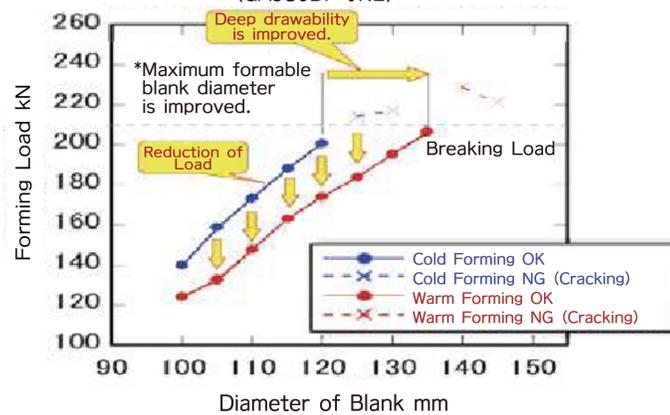
**Points**

Utilizing the Reduction of Deformation Resistance at 200°C, the Drawability is Improved and the Press Forming Load is Reduced.



The flange area is heated with priority  
→ Deep drawability is improved by utilizing the difference of deformation resistance, and the forming load is reduced.

Case of Forming a Rectangular Cylindrical Structure (GA980DP t1.2)



Warm Forming + High Formability 980 MPa Material



Cold Forming + 590 MPa Material



Example of Forming Simulating a Dash Panel