High Rigidity Joining Structure Utilizing Ultra High-Tensile Strength Steel Sheet with high formability Steel Sheet

Effect
- Achieving High Rigidity Weight of Body in White Part

Progress
1. Under Development  
2. Development Completed  
3. Commercialized

Points
Utilization of formability with (Stretch formability, Bendability, Stretch Flangeability)

- Formable High-Tensile Strength Steel Sheet
- 980 MPa-grade Conventional DP Steel
- Deep Drawability
- Bendability
- 590 MPa-grade (compared steel)
- Better Stretch Flangeability than that of 980 MPa-grade

High Rigidity Continuous Joining
High Rigidity Embossed Coupler

Example of Forming Continuous Flange Joining
(980 MPa-grade High Tensile Strength Steel Sheet)

Example of Forming Embossed Joining
(980 MPa-grade High Tensile Strength Steel Sheet)

Example of Forming Continuous Flange Joining
Conventional Structure 1
(Notched Flange)
Conventional Structure 2
(Completely Continuous Flange)

Conventional Structure
(1.4)
Conventional Structure
(1.4)
This Structure
(1.2)

Graph showing Ratio of Rigidity (%)
- L Direction
- +H Direction
- -H Direction

Deep Drawability