

Technology to Improve with the Cracking of Ultra High-Tensile Strength Steel Sheet by Stretch Flanging: Double-Punching Technology

Effect

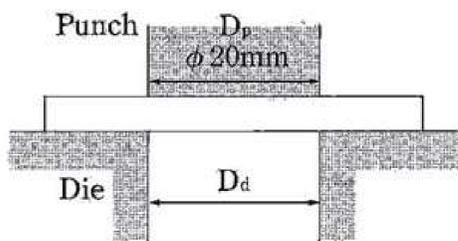
Improving Stretch Flanging Flangibility of Arms and Frames
 • Strengthening and weight reduction of parts by adopting ultra high-tensile strength steel sheets

progress

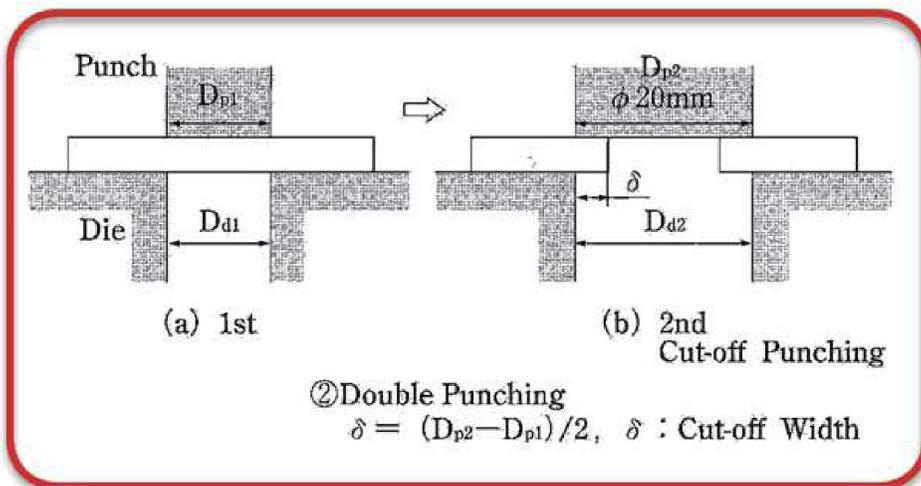
1. Under Development 2. Development Completed 3. Commercialized

Points

Stretch Flanging is Improved by Reducing the Work Hardening of the Sheared Edge



① Conventional Piercing



② Double Punching

$\delta = (D_{p2} - D_{p1}) / 2$, δ : Cut-off Width

Sheet Parts have many Stretch Flanging area

