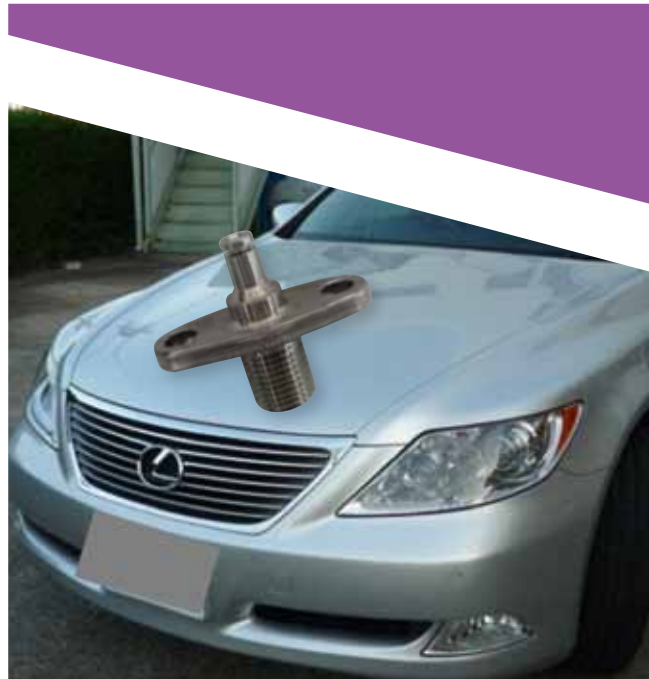


Automotive
FUEL UNION COMPONENT



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This fuel-union component was designed to be made of two welded pieces (free-cutting stainless steel and carbon steel). Low productivity (due to constraints in the welding process) and cost disadvantages meant the product was uneconomical to make.

A new technique was needed to make this complex-shaped component. The component is now made by intensively cold-forging large-diameter stainless steel wires in an integrated mould.



Location | JAPAN

Environment | OUTDOOR

Product | STAINLESS STEEL WIRE

Fabrication process | COLD FORGING

Grade/surface | NSSC 160R (EQUIVALENT TO SUS430J1L)/PICKLED

Material thickness/diameter | DIAMETER 18 MM

Weight | APPROXIMATELY 0.1 KG PER UNIT

Competing material | FREE-CUTTING STAINLESS STEEL AND CARBON STEEL

Date of Completion | JULY 2006

Manufacturer | SUMIKIN PRECISION PRODUCTS CO., LTD.

Material Supplier | NIPPON STEEL & SUMIKIN STAINLESS STEEL CORPORATION

Source of Information | JAPAN STAINLESS STEEL ASSOCIATION (JSSA)

Remarks