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- ✔ Substantial cost reduction by switching from machined and assembled parts.
- ✔ NITTOSEIKO produces highly functional parts and achieves cost reduction in assembly by Combining stamping parts and plastic hybrids and special screw processing technologies.

## About cold heading technology

A processing technology that applies pressure to metal under cold (room temperature) conditions to deform and shape it. A wide variety of shapes can be manufactured, including shoulder, large-head, center-rib, eccentric, and irregularly shaped shafts.

Processing examples



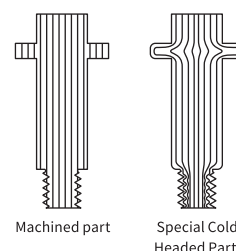
## Advantages of cold heading technology

### 1. Cost reduction

Compared to machined and assembled parts, there is less material loss, resulting in significant cost reductions. This resource saving also contributes to sustainability.

### 2. Increased strength and precise uniform dimension

The continuous fiber flow provides greater strength compared to machining. Parts are formed inside of a tool that is extremely consistent resulting in a high degree of repeatability.



## Proposals that only NITTOSEIKO can make

### ASSY

We can offer hybrid products with plastic and stamping parts, etc. This helps to reduce costs and man-hours.



### Special screws

It is possible to add our signature functional screws and coating according to the task. We add the most suitable functionality to your fastening conditions, including anti-loosening and anti-contamination.



Anti-loosening screw for plastic assembly application



Anti-galling screw for aluminum assembly application

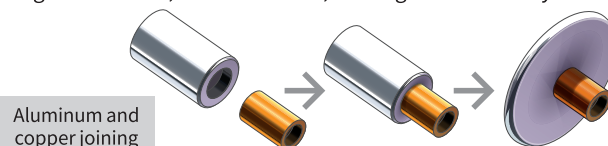
### Secondary processing

Every secondary operations such as polishing, knurling, trimming and grooving are available in house.



### Multi-materialization

"AKROSE" is a technology that firmly joins dissimilar metal parts to each other, enabling multi-materials. It realizes weight reduction, cost reduction, and high functionality.



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