

# What is the difference between sheet metal parts and stamping parts?

## Detail Introduction :

The process flow is as follows:

Sheet metal parts are mainly bent with thin plates. The machines used are mainly bending machines, and the parts are relatively large. The general process is shearing (blanking)-bending-welding.

The machine used for stamping parts is a punching machine, and the precision of the parts is high. Generally, a punching die is used to ensure it. Process: shearing (blanking)-punching-deburring.

The difference between sheet metal parts and stamping parts is as follows:

### 1. The quantity is different

Sheet metal is a prototype or small batch production. To be precise, it is proofing, and the quantity is small. If the mold is opened, the cost of the mold will not be earned. Stamping refers to mass production with high precision requirements. If the output is relatively large, it must be stamped on the mold.

### 2. Different processes

Sheet metal parts are metal sheet parts that workers manually beat with simple equipment such as hammers. It is characterized by low efficiency. The quality of parts is controlled manually, which is not stable enough, and the cost is low. It is used for small batch production or trial production stage.

Stamping parts are sheet metal parts stamped by dies and presses. It is characterized by high efficiency. The mold controls the quality of the parts, the stability is strong, but the cost is high, and it is used for mass production.

### 3. The process is different

Stamping parts are formed by applying an external force to plates, strips, pipes, and profiles by presses and molds to cause plastic deformation or separation to obtain workpieces of the required shape and size. Stamping and forging are both plastic processing, collectively referred to as forging. The blanks to be processed are mainly hot-rolled and cold-rolled steel plates and strips.

Sheet metal is a comprehensive cold working process for sheet metal, including shearing, punching/cutting/compounding, folding, welding, riveting, splicing, forming, etc. Its notable feature is the uniform thickness of the same part. The products processed by the sheet metal process are called sheet metal parts. The sheet metal parts referred to by different industries are generally different, and they are mostly used for the name of the assembly.