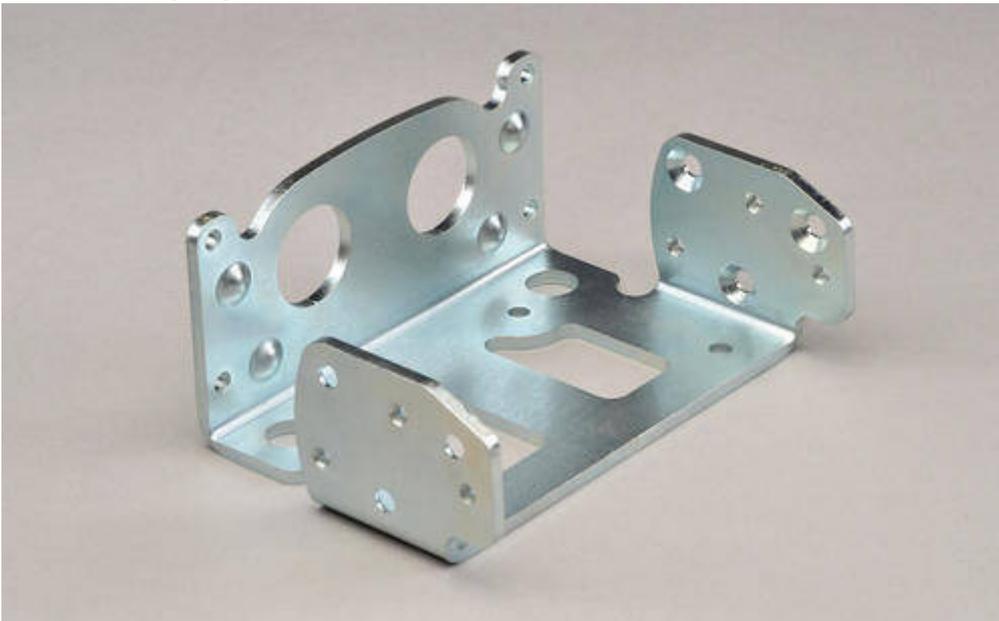


What is metal stamping?

Detail Introduction :

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Metal stamping is a common manufacturing process. Also referred to as metal stamping, it involves using a stamping press to deform and shape a metal workpiece. A metal workpiece usually consists of a sheet of metal. To change the shape of a sheet of metal, a manufacturing company can stamp it. How exactly does metal stamping work?



The basics of metal stamping

Although it may sound complicated, metal stamping is a relatively simple manufacturing process. It involves the use of a stamping press to deform and shape a metal workpiece. Stamping presses are heavy-duty machines that essentially sandwich a metal workpiece between a set of dies. They usually have one die on top, and another die at the bottom.

During use, the press will press the upper die downward onto the lower die. Since the metal workpiece is placed between these two dies, it will take their respective shapes. The bottom of the metal part will take the shape of the bottom die. On the other hand, the top of the metal part will take the shape of the top die.

Parts of a stamping press

Although there are several types of stamping presses, most of them consist of a few basic parts. For example, they have a cushion plate. The cushion plate is located at the top of the bed and is the component that holds the bottom die.

In addition to the cushion, most presses have an indenter or slider. The indenter or ram is the top that is pressed onto the metal workpiece. Some of them use a mechanical plunger or ram, while others use a hydraulic

plunger or ram. In any case, most presses have this part. It is one of the main parts of the press used to deform and shape the metal workpiece.

Advantages of metal stamping

Metal stamping has become a popular manufacturing process. It is considered a cold working technique. Like other cold-working techniques, it does not produce heat-related changes to the metal workpiece.

Metal stamping does not heat the metal workpiece. Therefore, there is no risk of heat-related changes. Parts can be deformed and shaped by metal stamping without being exposed to high temperatures.

Metal stamping is also a cost-effective manufacturing process. By using metal stamping, manufacturing companies can produce products faster and more efficiently. The efficient nature of metal stamping makes it a popular choice for large manufacturing companies.