



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

Design of Machine Elements (120412)

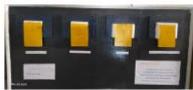
Title of Project: WELDED JOINT

Introduction:

Welding joints is the procedure of connecting a couple of pieces of metal (or plastic) at an edge or a point. Numerous factors come into play here including the shape of the materials, and certain geometrical aspects.

Description of Model

IMAGE



A welding joint is referred to an arrangement or configuration of two metal plates that will be fit together. The purposes of welding are infinite, and different processes require different types of welds and joints. According to the American Welding Society (AWS), there are 5 basic additions that are commonly known and applied.

Applications of Model

1. Tee Joint Welding. As you might have already imagined, the desired result is a 'T' shape. This is achieved by ensuring two metal pieces cross at 90 degrees.
2. Edge Joint Welding. Edge joints are usually used when two pieces of sheet metal have flanging edges. Other applications tend to be in places where a weld is the only way to attach pieces that are next to each other.
3. Corner Joint Welding. The sheet metal sector loves this type of joint. It is used when welding on the outside of the adjoining metal pieces. If you have placed the pieces correctly (at right angles), the finished item will create an L shape.
4. Lap Joint Welding. If you need to join two pieces of metal that are different thicknesses

What I Learned Through Project:

In metalworking, a welding joint is a point or edge where two or more pieces of metal or plastic are joined together. They are formed by welding two or more workpieces according to a particular geometry. There are five types of joints referred to by the American Welding Society: butt, corner, edge, lap, and tee.



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