



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

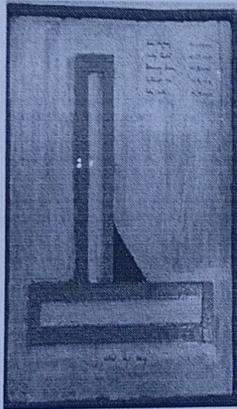
REPORT OF SKILL BASED MINI PROJECT

Design of Machine Elements (120412)

WELDED JOINTS

Introduction: Welding is a fabrication process whereby two or more parts are fused together by means of heat, pressure or both forming a join as the parts cool.

Description of Model



A weld is a homogeneous bond between two or more pieces of metal, where the strength of the welded joint exceeds the strength of the base pieces of metal.

At the simplest level, welding involves the use of four components: the metals, a heat source, filler metal, and some kind of shield from the air. The metals are heated to their melting point while being shielded from the air, and then a filler metal is added to the heated area to produce a single piece of metal. It can be performed with or without filler metal and with or without pressure.

Applications of Model

The T-shaped connector into which tubes or pipes are inserted to form a tee joint is also itself known as a tee joint.

What I Learned Through Project:

How the welded joints work

How is welding formed.

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Mechanical Engineering

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