



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

Design of Machine Elements (120412)

Title of Project: KNUCKLE JOINT

Introduction:

A knuckle joint is a mechanical joint used to connect two rods which are under a tensile load.

Description of Model



Applications of Model

Knuckle joint is commonly used in the automotive industries to make the following joints:

The link in the cycle chain

Roof truss tie rod joints

Tension link in bridge structure

Various types of lever and rod connections.

In multi-axle vehicles, the link rod of the leaf springs is connected

Connections between the leaf spring and the chassis

Piston, piston pin, connecting rod.

What I Learned Through Project:

Through this project we learned about designing of knuckle joint , its uses and application in different areas of mechanical world.

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