



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

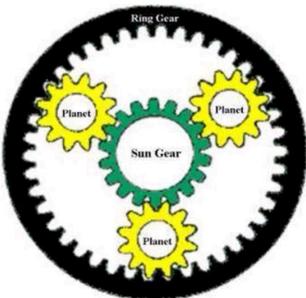
THEORY OF MACHINE 1 (120313)

Title of Project: SUN AND PLANET GEAR

Introduction:

The sun and planet gear is a method of converting reciprocating motion to rotary motion and was used in the first rotative beam engines. It was invented by the Scottish engineer William Murdoch, an employee of Boulton and Watt, but was patented by James Watt in October 1781.

Description of Model



In this model we use thermocol to make the sun and planet gear. Here we make one big gear which is called by the name of sun and we make three small gear which is know as planet gear which attach with the outer ring and sun.

Applications of Model

- The sun and planetary gear is used in most of the automatic transmission system. In automatic transmission compound sun and planetary gear is used.
- These kinds of gear also find application for converting reciprocal motion to the rotary motion in steam engine.

What I learned through the project?

From this project we learn that gear converted the vertical motion of a beam, driven by a steam engine, into circular motion using a planet.

Submitted By:

Dinesh kushwah(0901ME201064)

Utkarsh

Submitted To:

Prof. Utkarsh Shrivastava sir



Head
Deptt. of Mechanical Engineering
Madhav Institute of Tech. & Science
Gwalior - 05 (India)