



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

THEORY OF MACHINE 2(120411)

Title of Project : CAM FOLLOWER

- **Introduction:**

The Cam Follower is used in a wide range of applications such as cam mechanisms of automatic machines, dedicated machines as well as carrier systems, conveyors, bookbinding machines, tool changers of machining centre pallet changers, automatic coating machines, and sliding forks of automatic warehouses.

In mechanical engineering, a cam follower, also known as a track follower, is a specialized type of roller or needle bearing designed to follow cam lobe profiles

- **Description of Model**



A cam and follower mechanism is a profiled shape mounted on a shaft that causes a lever or follower to move. Cams are used to convert rotary to linear (reciprocating) motion. As the cam rotates, the follower rises and falls in a process known as reciprocating motion.

- **Applications of Model**

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A cam follower is a component that is intrinsically tied to a cam. Cams exist in many applications—dishwashers, sprinklers, etc.—but the most well-known example is that of a camshaft in a car.

And in this model we can see if we apply external force then the cam followers will perform the reciprocating motion and this motion is what makes the cam followers which I used for many appliances and for various applications.

- **What I Learned Through Project**

In the field of mechanical engineering, the Cam-follower mechanism plays a significant role in achieving even distribution of forces in a single machine component. By attaching a cylindrical roller in a machine component spontaneous movement can be achieved by an engineer.

Submitted By

AKASH KUMAR VERMA

0901ME201019

Class: IVth Sem. Mechanical Engineering

Head

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

Submitted To

Prof. Utkarsh Srivastava