MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

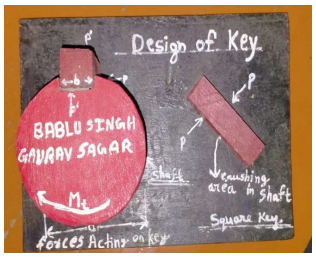
Design of Machine Elements (120412)

Title of Project: **SQUARE SUNK KEY**

Introduction:

Square keys as their name indicates, are square cross-sectional keys and it can be used for larger shafts. In square sunk, key width and thickness are equal in dimension. When a square sunk key or the rectangular sunk key having the uniform cross-section without any taper then it can be called as The parallel sunk key. They are typically specified for shafts with a diameter of 0.25 to 1.0 inches but larger square keys are also available for shafts up to 6.5-inches in diameter.

Description of Model



Rectangular sunk key having equal width and thickness is called square sunk key. If no taper is provided on the rectangular or square sunk key, it is called parallel sunk key i.e. it is uniform in width and thickness throughout.

Applications of Model

It may be noted that a parallel key is a taper less and is used where the pulley, gear or other mating piece is required to slide along the shaft.

What I learned through the project?

We learned form this project of square key that it is used in the joining two parts of the machine and these are used in general industrial machinery.

Submitted By
Gaurav Sagar
0901ME201067
Class: IVth Sem. Mechanical Engineering

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

Submitted To
Prof. Rajendra Prasad Kori
Assistant Professor