



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:

The Square sunk key is nothing but having the Square cross-section (Width-‘w’, Height h will be equal) In this case, the $w = h = d / 4$. See the picture of how the Square sunk key in an actual position. 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.

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 from 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.

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