



Email : sales@laboratoryinstrumentindia.com

Product Name :
Gear Tooth Form Apparatus

Product Code :
LBNY-0005-14000028



Description :

The Gear Tooth Form Apparatus also explains the form of an involute curve and how this is used to create a gear tooth profile. To help describe what an involute curve is, paper can be placed into the apparatus and an involute curve drawn. Gear Tooth Form Apparatus a bench top base plate contains all elements for this experiment. Three gears are located onto the base plate. A third gear is removable to allow students to review its tooth form, pitch circle diameter (PCD) and other key geometry of a tooth form. A large gear and small gear mesh together and can be rotated to produce analysis of ratios.

A set of vernier calipers is provided to allow the removable gear to be measured to help give a practical analysis of the Gear Tooth Form Apparatus.

Experimental Capabilities:

Explanation of Gear Ratios

Explanation of Gear Modules

Explanation of Gear Form

Explanation of Gear Trains and Rotational Direction

Experimental determination of shape and construction of an involute curve.

Technical Specification :

Large gears, allowing clear representation of gear theory

Wall or bench mounted apparatus for showing basic gear theory and explaining involute curves

Removable gear module 12.5

Includes vernier callipers for measuring gear geometry of removable gear

Small gear: 18 tooth, Module 4, 72mm PCD

Large gear: 50 tooth, Module 4, 200mm PCD
Comprehensive instruction manual provided.



Laboratory Instrument India