

Product Code . JL-FMAHLE-7332

Cam Analysis Apparatus

Description

Cam Analysis Apparatus

An apparatus is a motorized unit consisting of a camshaft driven by a variable speed motor.

The shaft runs in a double bearing.

The free end of the camshaft has a facility to mount the cam easily.

And a Dial Gauge fitted on the follower shaft is used to note the follower displacement for the angle of cam rotation.

A spring is used to provide controlling force to the follower system.

The apparatus is very useful for testing the cam performance for jump phenomenon during operation.

The follower is properly guided in gunmetal bushes and the type of follower can be changed according to the cam under test.

The graduated circular protractor is fitted co-axial with the shaft.

On this apparatus, the effect of change of inertia forces on jump action of cam-follower during operation can be observed.

Weights on the follower shaft can be adjusted as per the requirement.

An arrangement is provided to regulate the speed.

It is useful for testing various cam & follower pairs.

These are already hardened to reduce the wear.

Three cams and three followers will be supplied with the apparatus.

Scope of Experimentation:

To plot the n-q (Follower displacement Vs Angle of rotation) curves for different cam follower pairs.

To study the effect of spring compression on the bounce.

The follower bounce can be observed by using a stroboscope (Optional) & effect of follower weight on bounce can be studied.

To study the effect of follower weight on the bounce.

The tests can be repeated by changing compression springs, follower weights, and cam speed.