TOM-006 **CAM ANALYSIS MACHINE**

RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To plot n - θ (follower displacement Vs. Angle of cam rotation). Curve for different cam follower pairs. The n - θ plot can be used to find out the velocity & acceleration of the follower.

2. To observe the phenomenon of jump. For this, use of a stroboscope is necessary

TECHNICAL DESCRIPTION:

The machine is a motorized unit consisting of a cam shaft driven by a D.C. Motor. The shaft runs in a double ball bearing. At the free end of the cam shaft a cam can be easily mounted. As the follower is properly guided in gun metal bushes & the type of the follower can be changed to suit the cam under test. A graduated circular protractor is fitted coaxial with the shaft & dial gauge can be fitted to note the follower displacement for the angle of cam rotation. A spring is used to provide controlling force to the follower system. Weights on the follower rod can be adjusted as per the requirements. The arrangement of speed regulation is provided.A different set of cam and followers are provided.

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DIMENSIONS AND WEIGHT :

Size :0.5 m.(L)x 0.5 m(W) X 0.7m (H)

Weight :Approx. 15 Kg

SERVICE REQUIRED :

230 v Ac Supply 50 Hz

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY: Data logging Facility

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