Product Name :	**Product Code :**
Oscillating Cylinder Apparatus	LBNY-0005-14000021

Description :

Oscillating Cylinder Apparatus at the other end of the crankshaft is a slider that runs in a swivelling housing. A linear scale mounted to this housing ensures accurate readings of the piston displacement. On the left of the base is a large rotating protractor scale 'Crank' that rotates on a shaft and bearing arrangement. The increments on the protractor match with a indicator that ensure accurate reading of the angular movement of the scale. Oscillating Cylinder Apparatus a comprehensive instruction manual for lecturer and student, giving full details on apparatus assembly and operation as well as example results. Oscillating Cylinder Apparatus comprises a sturdy base plate, which can be mounted vertically for demonstration purposes or flat for experimental use. Integral to this protractor are varying radius positions used for locating the crankshaft. An input disc can houses a crank pin, which can be fixed at various radii across the input disc face.

Technical Specification :

Experimental Capabilities:
To investigate by graphical differentiation the relationship between angular and linear speeds and accelerations of the mechanism
To construct velocity and acceleration diagrams for the mechanism
Comparison of experimental results with theoretical predictions
To determine the relationship between crank angle and stroke
To study the effect of changing the crank radius.

Specification:
The piston axis swivels approximately in line with the connecting rod.
The crankshaft incorporates a rotating protractor scale 360°, 10° increments

The bench mounted apparatus consists of an adjustable length crank attached to a connecting rod, which is attached to a sliding piston.
The piston displacement read on a sliding scale, 0 - 100mm, 1mm increments
Crankshaft length adjustment 25mm
Crankshaft radius adjustment 6.25mm
Maximum crankshaft radius 50mm.

Laboratory Instrument India