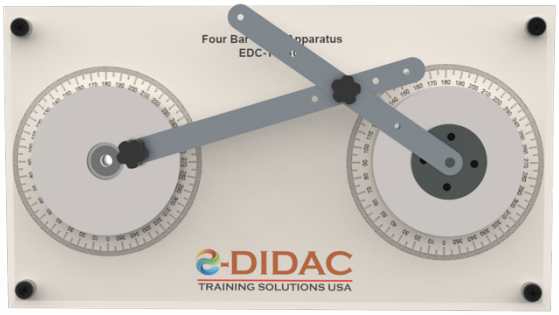
Four Bar Chain Apparatus (EDC-TM-101)

EXPERIMENTAL DATA:

- To demonstrate Grashof law.
- Investigation of the mechanical relationships on four bar chain mechanisms
- Determining the effect of varying the crank radius, rocker radius and connecting rod length.



DESCRIPTION:

Four Bar chain model can be used to convert rotary motion into oscillatory motion. A sturdy wall mounting base comprises of two discs mounted on ball bearings as a crank and rocker. Both of the discs include a protractor for accurately determining experimental variables. Crank radius can be varied by connecting the connecting rod to differently distanced points from the pivot. Length of connecting road can also be varied as well as the radius of the rocker.

Connecting can oscillate freely as the crank and rocker move.

TECHNICAL DATA:

- Crank Radii: 25, 37.5, 50mm
- Rocker Radii: 50, 100, 150, 200mm
- Length of connecting rod: 150, 175, 200, 225mm
- 360° protractors, 1° increments

WEIGHT AND DIMENSIONS:

- L x W x H (mm) : 500 x 300 x 120
- Weight (approx) : 5kgs

SCOPE OF DELIVERY:

- 1 x EDC-TM-101
- 1 x Instructional Manual

RELATED LAWS:

- Linear Motion to Rotation
- Simple Machines
- Connecting Rods
- Crank, piston, flywheel
- Combustion Engine
- Automotive