

Disk Brake Apparatus (EDC-MM-137)

EXPERIMENTAL DATA:

- To study the most effective brake pad material.
- To study the most efficient radial placing of the brake pad.



DESCRIPTION:

Apparatus contains brake disc which is mounted vertically on frame. A single shaft runs through the brake disc. A cord pulley mounts to the shaft onto which is mounted a cord terminating in a Load hanger. Two bell crank levers are mounted either side of the brake disc. Through the Load the force is applied to the brake disc and the parameters of braking force, braking torque, normal force can be assessed. The rotational angle of movement of the disc wheel can be viewed using the external protractor. Different brake pad materials can be tested as well as their radial position on the brake disc.

SPECIFICATIONS:

- Well-made base plate.
- Loads with Load Hangers.
- Brake pads of different material.

TECHNICAL DATA:

- Stainless steel disc wheel:
 - $\text{Ø}210\text{mm} \times 3\text{mm}$.
- Radial positions for brake pad:
 - 20mm intervals.
- Brake pad:
 - $\text{Ø}25\text{mm} \times 6\text{mm max}$.
- Brake pad:
 - Brake material, aluminium, brass, nylon.
- Protractor:
 - 360° , 1° increments.
- Weights set:
 - 3 x 0.1N.
 - 8 x 0.2N.
 - 3 x 1N.
 - 3 x 2N.
 - 1 x 5N.
- 2 x Load hanger.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 350 X 450 X 350 approx.
- Weight: 12 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-MM-137.
- 1 x Instructional Manual.

