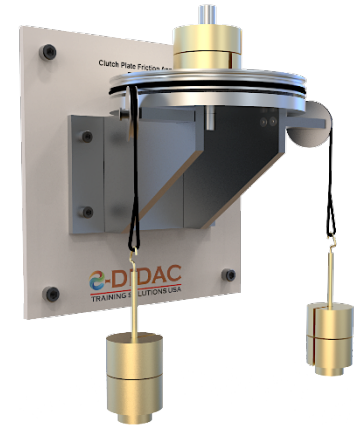


Clutch Plate Friction Apparatus (EDC-MM-115)

EXPERIMENTAL DATA:

- To determine the coefficient of friction of the plate material
- To study the effect of different materials on coefficient of friction
- To study the effect of varying axial load on coefficient of friction



DESCRIPTION:

This wall mounted experimental unit consists of one stationary and rotary plates. Lower stationary plate is attached to the aluminium wall bracket. Top rotary plate rotates on a shaft fitted with ball bearing but the plate remains in contact with the friction plate at all times.

Friction discs are placed between the stationary and rotary aluminium plates. Contact pressure depends upon the weight added to the rotary plate along with the mass of the plate itself. Torque is applied to the rotary plate through two loaded cords and pulleys. The cords wrap around a groove in the upper plate.

Calibrated weights are also supplied which enable the loading force to be varied and applied torque to be adjusted also.

TECHNICAL DATA:

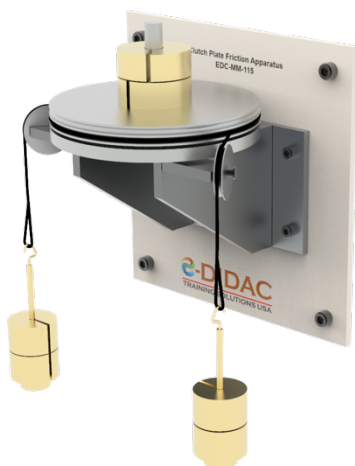
- Friction disc: $\varnothing 180\text{mm}$, diameter, 5mm thick
- Different test material discs
- Stationary disc diameter: $\varnothing 200\text{mm}$

RELATED LAWS:

- Clutches
- Brakes
- Plate pressure
- Friction
- Wear
- Torque
- Slip

WEIGHT AND DIMENSIONS:

- L x W x H (mm) : 300 x 300 x 150
- Weight (approx) : 12kgs



SCOPE OF DELIVERY:

- 1 x EDC-MM-115
- 2 x Friction Disk Set
- 2 x Load Hanger
- 6 x 0.1N; 8 x 0.2N; 2 x 1N; 4 x 2N; 2 x 5N
- 2 x 10N; 2 x 20N; 2 x 50N; 1 x 100N
- 1 x Instructional Manual