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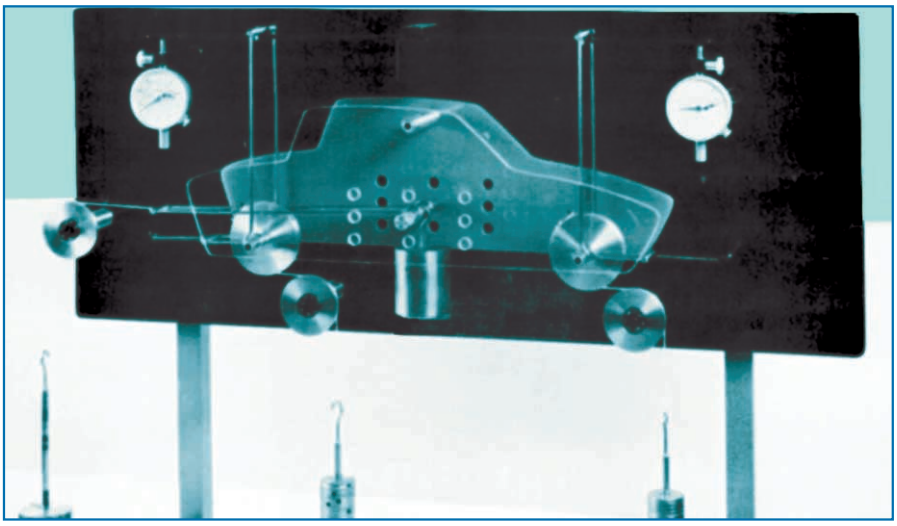
# Braking and Accelerating Forces Equipment

**MFF**



Under conditions of braking or acceleration of a road vehicle, a load transfer between front and rear wheels occurs. The problem of load transfer arises since the accelerating or braking force is not applied to the centre of gravity of the vehicle but to the point of contact of the wheels with the road.

The Braking and Accelerating Forces Apparatus has been designed to demonstrate this load transfer and to enable the student to carry out simple experiments to investigate the relationship between the forces involved in vehicle braking and acceleration. The relationship between these forces on front wheel drive, rear wheel drive, and four wheel drive may also be demonstrated.

A "Model" Vehicle is supported on a beam load cell. The model has simulated road wheels and is drilled to receive a pin which may be inserted in varying positions to represent the centre of gravity of the vehicle.

Suitable weights, cords and pulleys are used to apply varying horizontal braking or acceleration and inertia forces to the vehicle.

The apparatus is portable and may be used in either the classroom or the laboratory.

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|---|---|
| Dimensions | 800 x 300 x 700 mm approx. |
| Nett Weight | 18 kg. |

Note: **New catalogue available soon**

* Specifications subject to change without previous notice, due to continuous improvements of the product.

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MECHANICS & MATERIALS