

7.2.- GENERAL MECHANICS

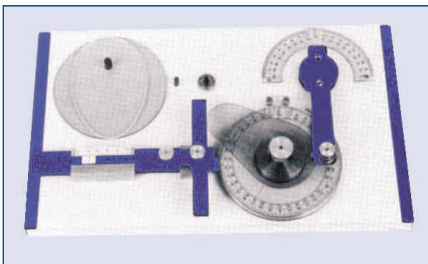
7.2.3.- MECHANISMS

Dimensions and Weight

- Dimensions approx.: 30 x 23 x 18 cm.
- Weight approx.: 5 Kg.

MEX

Cam and Follower Mechanism

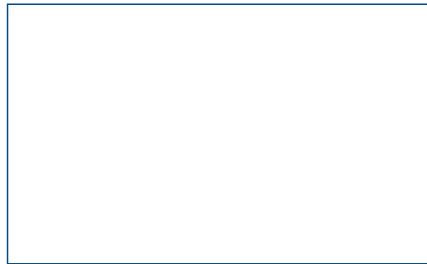


Dimensions and Weight

- Dimensions approx.: 39 x 23 x 6.5 cm.
- Weight approx.: 2 Kg.

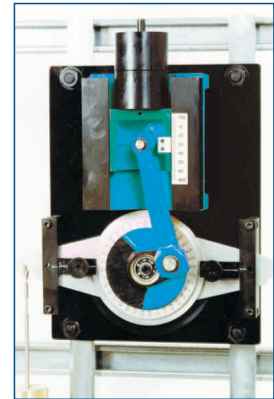
MUV

Constant Velocity Joint Mechanism



MBI

Crank Mechanism



Practical Possibilities

- The relationship between the piston displacement and the crank angle for a given connecting rod/crank radius ratio.
- The relationship between the turning moment on the crank shaft and the crank angle for a given force on the piston.
- The crank effort may be determined by attaching suitable masses to the beam balance arm.
- A protractor is attached to the crank which may be rotated on the beam balance arm and clamped in any predetermined angular position.

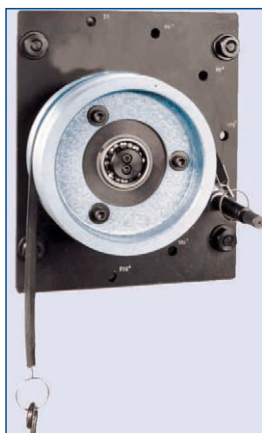
Dimensions and Weight

- Dimensions approx.: 55 x 27 x 48 cm.
- Weight approx.: 15 kg.

7.2.4.- LUBRICATION. WEAR. FRICTION

MCF

Belt Friction Equipment



Practical Possibilities

- Investigations to compare the driving torque for a given degree of overlap of a flat leather belt, a badly fitted "V" belt.
- The slipping torque is determined by the addition of a suitable mass attached to a cord wrapped round the drum.

- The angle of overlap can be varied from 30 to 210 degrees in increments of 30 degrees.

Dimensions and Weight

- Dimensions approx.: 33 x 28 x 25 cm.
- Weight approx.: 7 kg.

MEF

Friction Study Equipment



Practical Possibilities

- To illustrate the force of friction.
- Investigate the relationship between the friction between dry surfaces of various materials.
- Compare the value of the coefficient of sliding friction between dry surfaces of various materials.
- Compare the value of the coefficient of sliding friction between dry and lubricated surfaces.
- Compare the force of friction between sliding and rolling surfaces.
- Compare the force of friction between "Hard" and "soft" rolling surfaces.

Dimensions and Weight

- Equipment dimensions approx.: 400 x 260 x 250 mm.
- Nett Weight approx.: 14 Kg.