



THE LAB EQUIPMENT

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**Product Name :**

Coupled Drives Apparatus

**Product Code :**

SLE/ETC/05



## Description :

- Coupled Drives apparatus shows the problems of controlling speed and tension in coupled drives.
- A manual control allows the user to adjust the spring tension at the swinging arm.
- The apparatus has two electric motors, coupled by a continuous flexible belt.
- The belt also passes over a swinging arm with a 'jockey wheel' that measures the belt speed and tension.
- The basic control problem is to vary the torque in the motors to regulate the belt speed and tension.
- The user guide also shows techniques for speed and tension control, simultaneous control of velocity and tension, and analysis of multi-variable control systems.
- Many applications use coupled drives, for example: magnetic tape drives, textile machines and paper mills.

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