



THE LAB EQUIPMENT

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**Product Name :**

Universal Dynamometer

**Product Code :**

SLE/EFM/06



## Description :

- **It has two parts:** the electric dynamometer, and a motor drive and display unit.
- The dynamometer is an induction motor, trunnion-mounted to allow it to move freely against a strain gauge load cell.
- The Universal Dynamometer directly drives the Fluid Power machines.
- This means that the user has no need to fit or adjust the tension of belts and pulleys.
- The motor drive and display unit contains a variable-speed a.c. inverter drive and includes signal conditioning.
- It digitally displays speed, torque and shaft power.
- An inductive sensor measures the shaft speed.
- The load cell measures the shaft torque.
- A precision-machined base plate holds the motor and its sensors.
- The base plate has location points to give accurate and repeatable alignment onto each Fluid Power module.
- The coupling between the Universal Dynamometer and all Fluid Power machines is a jaw-type coupling with a rubber element.
- The front of the motor drive and display unit has motor stop, start and speed controls.
- Outlets on the back of the unit give power for instruments supplied with the Fluid Power modules.
- This reduces the need for multiple mains connections and gives a neater and safer equipment arrangement.

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