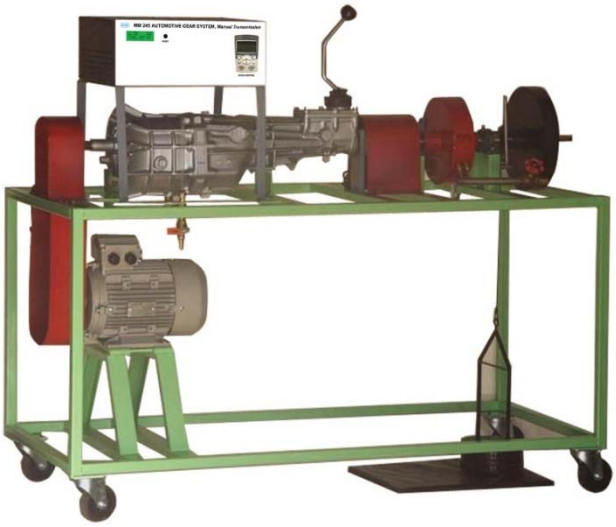
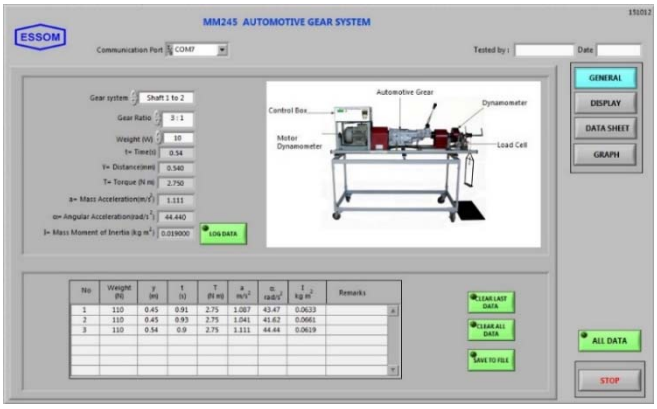
MM 245 AUTOMOTIVE GEAR SYSTEM, Manual Transmission, Computer interface





Photograph includes optional equipment

GENERAL DESCRIPTION

The apparatus is for studying the acceleration of an automotive gear system as well as gear system efficiency under different gear ratios and speeds.

The system uses a manual automotive gear. The input shaft is driven a motor dynamometer via a belt and pulleys. Speed is controlled by an inverter. The output shaft is attached to a water brake absorber dynamometer. The gear output shaft is extended for a study of inertia of a mass and equivalent inertia of the gear system. The dynamometer requires outside water supply.

The unit is on steel frame with adjustable footings.

Instruction manual is also included.

EXPERIMENT CAPABILITIES

- Input power, output power and efficiency.
- Effect of speed and load on efficiency.
- Equivalent inertia of the gear.

TECHINCAL DATA

- Gear box : Good used 5 speeds manual automotive gear
- Speed control : Inverter
- Maximum shaft input speed : 6000 rpm
- Measuring instruments
  - Torques : Digital display for input and output shafts
  - Speeds : Digital display for input and output shafts
- Accessories : Cable drum, two inertia masses, calibrated weights, weight hanger, rubber pad and stop watch for inertia determination
- Software for data display and analysis by computer (separately supplied).
- Power supply : 380 V, 3 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- MM245-001A Motor with advanced inverter instead of motor dynamometer.
- MM245-014 Dynamometer water cooling unit
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unpacked) shipping dimensions WxLxH : 70 x 155 x 135 cm
Net weight : Approx. 250 kg