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Product Name :
Automotive Gear System Efficiency Manual Transmission

Product Code :
LBNY-0005-13000016



Description :

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 an eddy current absorber dynamometer. The Automotive Gear System Efficiency Manual Transmission apparatus is table top unit for studying an automotive gear system efficiency under different gear ratios and speeds. The system requires outside water supply for water brake absorber cooling. The unit is a bench top with adjustable footings. The system uses a manual automotive gear.

Experiments:

Effect of speed and load on efficiency.
Input power, output power and efficiency.

Technical Specification :

Gear box : Good used 5 speed manual automotive gear.
Maximum shaft input speed : 6000 rpm.
Speed control : 4.0 kW inverter.
Power supply : 380 V, 3 Ph, 50 Hz.
Power measurement
a. Torques : Digital display for input and output shafts.
b. Speeds : Digital display for input and output shafts.

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