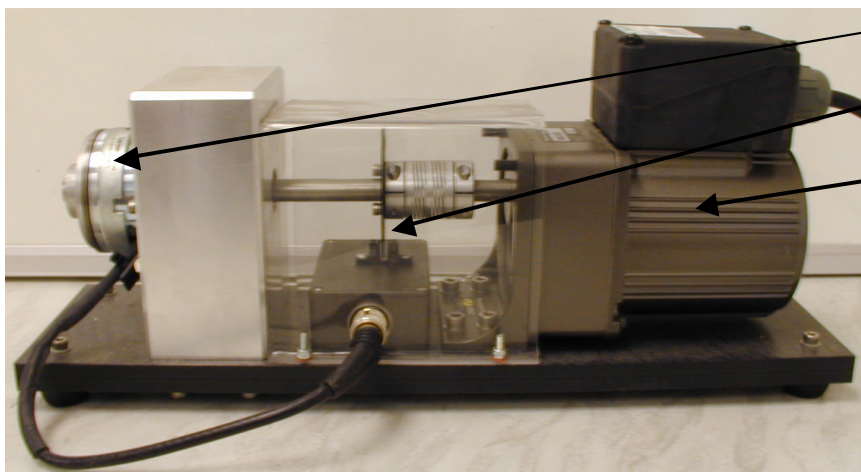


A growing market: Drive and motor systems continue to develop in traditional high power applications such as conveyors, pumps, elevators and so on while new compact designs are introducing this technology into many commercial, domestic, aerospace and automotive applications.

The need for efficiency: A growing market demand for flexible systems with improved power efficiency increases the need for designers and manufacturers to quantify power parameters on motor drive systems with much greater precision.

A complex measurement problem: Drive and motor systems present unique challenges for measurement instruments, as a fixed frequency supply voltage is converted into a complex power input signal for motors that must drive a wide range of loads at varying speeds. Whether a user is interested in the drive, the motor or the total system efficiency, only test instruments that are specifically designed for this demanding application will provide meaningful results for electrical and mechanical power parameters.



Brake System

Torque & Speed Sensors

Three Phase Motor

**Applicable PWM
Drive System**

Unique requirements: The complex nature of motor drive systems introduce unique demands on the test equipment for this application. These include:

Wide range of voltage, current, torque and speed signals.

Synchronised measurement of electrical and mechanical parameters.

Accurate frequency detection, ideally with no need for analogue filtering.

Wide bandwidth to quantify fundamental, harmonic and noise components.

Stable steady state results and ideally, the ability for dynamic testing of start up and load test conditions. Results storage for reports and comparisons.

For more information on combined motor drive application solutions, please contact Voltech Instruments on: -

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