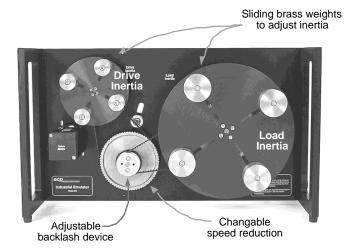
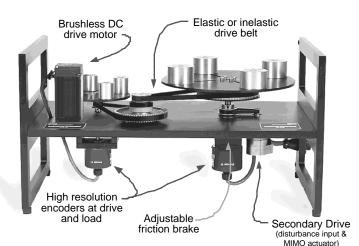
Model 220 Industrial Plant Emulator



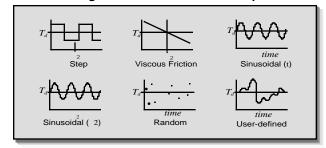


Testbed for Practical Control Training

This system is ideal for teaching practical control of modern industrial equipment such as spindle drives, turntables, conveyors, machine tools, and automated assembly machines. Such plants are readily emulated using the many available configurations of the apparatus. Its adjustable dynamic parameters, and ability to introduce or remove non-ideal properties in a controlled manner make it a perfect selection for industrial servo control training. A built-in secondary drive provides for programmable disturbance inputs and with the optional Executive USRTM software, the apparatus becomes a full MIMO testbed.

Adjustable, .0004 to .00245 kg-m² Actuator Inertia, J1: Load Inertia, J2: Adjustable, .005 to .025 kg-m² 6 speeds from 1.5:1 to 24:1 Gear ratio (GR): Backlash: Adjustable, 0 to 90 motor degrees Drive flexibility: Adjustable, Rigid to 1.0 Hz flex freq. Coulomb friction brake: Adjustable, 0 to > 10 N-m I/O: SISO, SIMO, MIMO Feedback: High resolution encoder, 16,000 counts/rev. Actuator: High torque brushless DC servo motor, 2.0 N-m Secondary (disturbance) Drive: High torque brushless, 2.0 N-m Bench-top size: 30x51x12 cm. (12x20x12 in.) Safety Features: Plexiglass® cover, amplifier over-current protection. In firmware (complete system only): relative displacement protection, over-speed protection, i2t thermal protection

Programmable Disturbance Torques



Introduce or Remove Non-ideal Properties

