



# Ballhead Drive Simulator

Test on-line governor performance with unit off-line

➤ **Test and Calibrate On-Line Governor Performance**

➤ **Designed for Mechanical Governors**

➤ **Precise Speed Control**

➤ **Digital Tachometer**

➤ **Manual Control Potentiometer**

➤ **Remote Control Interface (DH-485)**

➤ **Detailed Instruction Manual**

Our Ballhead Drive Simulator allows you to test and calibrate on-line performance of a mechanical governor while the unit is off-line and idle. This portable apparatus utilizes a variable frequency drive to inject a simulated speed signal to the governor ballhead. Step changes or ramps can be simulated and governor response measured. This is useful for both normal governor testing and NERC / WECC performance verification.

## **Ballhead Drive Simulator includes:**

- > Variable-frequency motor drive
- > Precision speed control potentiometer
- > Pre-wired control enclosure with On/Off switch
- > Programmable step and ramp functions
- > Remote control/monitoring interface (DH-485)
- > Detailed instruction manual



*Ballhead Drive Simulator*

American Governor Company offers a complete line of pre-engineered retrofit kits, partial upgrade kits, and digital governor systems:

## **Governor Retrofit Kits Available:**

- > Solenoid-Operated Pump Unloader Kits and Lead/Lag Operator Panels
- > Selsyn Replacement Kits (substitutes 4-20mA transducers, new remote indicators)
- > 3D Cam Replacement Kits (eliminates obsolete mechanical and early-digital designs)
- > PLC-based Speed Switch Replacement Kits (eliminates auxiliary switches)
- > Digital Governor Interface Kits (for remote control of mechanical and analog governors)
- > Kidney Loop Oil Filtration Systems (to maintain oil cleanliness and extend component life)
- > Gate Limit Actuator (for remote control of Gate Limit setting during start-up and shutdown)

## **Governor Upgrade Kits Available:**

- > Partial Upgrade Kits (includes PLC and Pilot Valve Replacement Kits)
- > Complete Governor Upgrade Systems (includes PLC, valves, HPU units and pressure tanks)
- > American Governor Upgrade Kits are available for governors made by:

### **Woodward:**

Mechanical Cabinet Actuators  
Analog Electric Actuators (Mod I and II)  
Gateshaft Governors  
Type A Actuators

### **Other Manufacturers:**

Pelton, Cheston, Allis-Chalmers, Voith, ASEA, SM Smith, Lombard, others

While we do offer upgrade kits, American Governor is also proud to support your legacy governors with high-quality replacement parts at reasonable prices, expert field service on short notice, knowledgeable technical support, and professional training classes.

# American Governor Company - Contacts

We Provide Parts and Service for:

- **Regional offices serve you better!** Call today for governor parts, service, training, or technical support.
- **Governor School is back! Every June in Wisconsin.** Call your Regional Office for details.
- **Whether New or Reconditioned,** all American Governor parts come with our **standard one year warranty.**
- **Got nagging governor problems?** American Governor experts are just a phone call away.
- **OEM unsupportive?** American Governor supports all types and styles of hydro governors, **produced by any manufacturer.**



Gateshaft Governors



Mechanical Cabinet Actuators



Analog Cabinet Actuators



Digital Governors

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Wisconsin Training and Repair Facility

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