

# GOVERNOR TEST STANDS

## Series AK6 Governor Test Stand and Engine Simulator

The AK6 is a governor test stand for permanent installation designed to subject governors to a closed loop test simulating diesel engine operating conditions. Acceleration rate is set by adjustment of the test stand inertia and drive torque.

Electric and pneumatic signals for speed setting and shutdown are provided together with full instrumentation and an analogue output for a transient speed recorder.

Equipment is available to enable most hydraulic governors to be tested.



GOVERNOR TEST STANDS Series AK6  
Governor Test Stand and Engine Simulator

### FEATURES

- Full instrumentation and control
- Inertia discs providing acceleration rates between 100 and 5000 rev/min/sec
- Governor drive adaptors and mounting plates to suit any governor type
- Governor linkage
- Step up gearboxes for driving governors at speeds above 1250 rev/min (maximum drive speed 4500 re/min).

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### SPECIFICATION

#### Drive Motor

11.2 kW Electric Motor

#### Governor Drive Speed

60 - 1300 rev/min. 100-2000 rev/min with gearbox.

#### Acceleration Rate

100-5000 rev/min/sec.

#### Main Drive Oil System

Motor driven hydraulic motor, hydraulic pump, main control valve, load on/off valve, load back pressure valve and reversing valve. Manual speed control handwheel to run the governor on open loop. Header tank 5 Imp gall (23 litres) capacity. Oil to water integral cooler, water flow rate at 30°C 2 Imp. gall/min (9 litres/min). Alternative oil to air cooler for mounting external to test stand.

#### Governor Oil System

Motor driven oil pump, immersion heater and filter to fill and circulate oil whilst governor is under test. Header tank 7 Imp gall (32 litres)

#### Instrumentation Pressure Gauges

Main drive pressure, main drive back pressure, governor oil pressure, load control pressure, speed setting pressure and boost pressure.

#### Thermometers

Main drive oil temperature, governor oil temperature combined with thermostat to control governor oil temperature.

#### Tachometers

Governor speed dial and digital

#### Electrical Equipment

Digital voltmeter and variable voltage power supply for governor speeder motors. Multi-step switch for governor speed setting solenoids.

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