BEARING TEST RIGS

Dynaspeede offers unparalleled solutions in application areas of testing... like motors, bearings, pumps, generators, engines, axles, gearboxes, clutches, transmission belts and more... We are well equipped to handle operations demanding synergic combination of mechanical, electrical and electronic expertise. Test and measuring for real life verification/ validation of CAE designs are offered for implementation.

Accelerated Testing of ball and cylindrical roller bearings for endurance studies under specified conditions of speed, thrust loading, lubrication and temperature limits.

Salient Features

- A special 4 bearing- Test concept to reduce shaft deflections and bending moments at high speeds.
- High critical speeds in lateral and torsional modes, under loaded conditions.
- The driving mechanism is designed for rotating the test bearings up to preset speeds and with the specified loads in both axial and radial directions.
- Two independent hydraulically actuated cylinders to simulate radial and axial thrust loads.
- A suitable hydraulic power pack for actuating Hydraulic cylinders with complex servo hydraulics is provided for precise control of axial and radial loading.
- Separate reservoirs are provided for forced lubrication and cooling.
- The Bearing oil temperature is controllable up to preset limits.
- Suitable heat exchangers are provided in the rig to dissipate excess heat and to thermally isolate critical elements in the test bench.
TESTS CONDUCTED

- A remote control panel, with PC based control system to monitor the test bearings and other diagnostics.
- Speed control
- Radial & Axial thrust control
- Oil flow control
- Oil temperature control

COMPONENTS TO SOLUTIONS...

**SYSTEM COMPONENTS**

- **DRIVES**
  An unmatched range of electronic Drives ... from simple eddy current drives to high-performance digital drive systems and point-to-point servo systems.

- **TRANSMISSIONS**
  High performance Planetary / helical gearboxes or combinational gear systems and high precision, low back-lash gear heads.

- **TRANSUDCERS**
  For speed, torque, tension, force and vibration, shock measurements.

- **ELECTRONICS & SOFTWARE**
  Distributed and integrated control systems from analogue to digital designs and manufacture including DSP based controls with third party PCs / PLCs and custom built software.

**TEST BENCHES**

**TEST RIG FOR PRIME MOVERS**

- Engines
- Automobile motors
- Appliance motors
- Industrial motors
- Actuators

**TRANSMISSION TEST RIGS**

- Gear units
- Axles
- Shafts
- Belts
- Chains

**INERTIA DYNAMOMETERS**

- Brakes
- Clutches

**CUSTOM BUILT TEST STANDS**

- Pumps
- Generators
- Bearings
- Burst tests

**CONCEPT MACHINES**

- Measurement of mass properties

Subject to change without prior notice

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