MAGTROL
CUSTOM MOTOR TEST SYSTEM

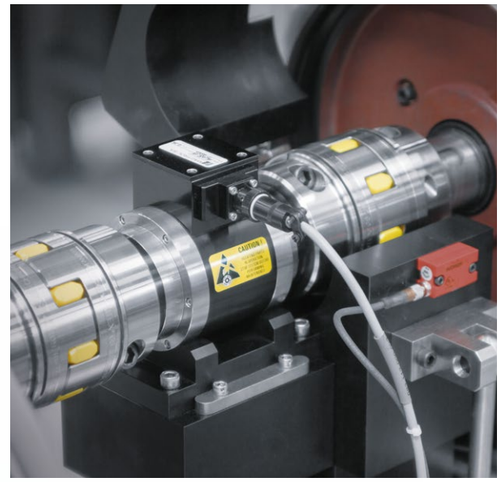
4Q ACTIVE DYNAMOMETER

IEC IEC-60034

IN ADDITION TO ITS WIDE RANGE OF HYSTERESIS, POWDER AND EDDY CURRENT DYNAMOMETERS, MAGTROL PROVIDES 4 QUADRANT DYNAMOMETERS OFFERING MOTORING AS WELL AS LOADING CAPABILITIES. FOR A WORLD-WIDE LEADER IN PUMPS MANUFACTURING, MAGTROL HAS SUPPLIED A FIRST CLASS 37 KW AC DYNAMOMETER.

The system offers complete testing in motoring and loading functions capable of simulating real-world in-use conditions. System features:

- High dynamic torque / speed control
- Full torque from zero speed
- Full regenerative capability, returning power to AC mains (energy saving)
- Dedicated software control and data acquisition with automated test report capabilities and data downloading (Excel, CSV or text file)
- High accurate torque measurement (0.1%)
- Electric motor performance testing to IEC-60034
- Complete load data (torque, speed, current, efficiency, power input, power output, temperature, resistance), temperature rise and related data, during motor operation
- Robust industrial design for long terms operation stability



This Magtrol 4Q Dynamometer uses a dynamic adjustable load with a servomotor that produces loading function to the motor under test. The loading motor operates as a generator, returning the energy back into the main line power supply through the servo drive and regenerative unit. The 37 kW 4Q Dynamometer provides torque up to 220 N·m and speeds up to 4500 rpm. The system integrates Magtrol's in-line TM312 Torque Sensor (200 N·m, 0.1% accuracy) as well as electrically controlled safety coupling guards. The stiff base plate is mounted on a robust steel welded frame with adjustable support feet. An easy to move connection box can be positioned near the motor under test for measuring connections. The control rack integrates all the measuring & control instruments as well as PC, monitor and keyboard.

Easy to use, Magtrol M-Test Software enables the user to quickly set test parameters and sequences in torque or speed control, closed loop or open loop. Test setups can be saved and recalled any time. M-TEST has the flexibility to test a variety of motors in a multitude of configurations. The data generated from this user-friendly program can be stored, displayed and printed in tabular, graphical formats or universal data reports and is easily imported into a spreadsheet. Clear and professional reports can be issued.

Need specific Motor Testing ?
Do not hesitate to challenge us !

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