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Technical Specifications sheet of Multi Function Rotor Experiment Bench

Machine fault simulator bench: The Instrument shall have the followings

- Experiment Bench with speed controller
- Data acquisition unit
- Eccentric rotors for balancing experiment
- Bent shaft
- Good and combined fault ball bearing set with complete rotor setup
- Tachometer sensor with TTL output
- Eddy current probes with signal conditioner
- Velocity probe with signal conditioner
- Uni-axial accelerometer with signal conditioner
- Teaching Software

<u>Sl. No.</u>	<u>Item Name</u>	<u>Specifications</u>	<u>Compliance (Yes/No)</u>
1.	Experiment bench with speed controller	Servomotor with speed upto 12000 RPM Motor controller unit with speed display	Yes
2.	Data Acquisition System	Channel: 6 (Including the conditioner as per) DC input suitable for Eddy current probes-3 channels ICP/IEPE: 1 channel AC/DC input suitable for velocity probe: 1 channel TTL/Tacho: 1 channel Sampling: 100KHz Resolution: 16bits PC Interface: USB/Ethernet	Yes
3.	Photo electric speed sensor	Range: 0-30mm Speed: 0-12000 RPM Shall be compatible to the proposed DAQ system	Yes
4.	Eddy current probe with conditioner driver	Range: 2mm Sensitivity: 4um/v or better Frequency Range 0-2000Hz Driver -24V suitable for the proposed eddy current sensor	Yes
5.	Velocity Sensor	Range: 1mm Sensitivity: 30Mv/mm/sec or similar Natural frequency: around 10Hz	Yes

6.	Accelerometer	Sensitivity: 10mv/m/sec ² or similar Range: 0.5 to 6000 Hz Max amplitude: 500 m/sec ² Type: Unlaxial	Yes
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Installation & demonstration shall be provided.

Warranty: 1 year

Delivery Period: 16 weeks delivery period is preferable for us.

