PAPER MACHINES & CONVEYORS

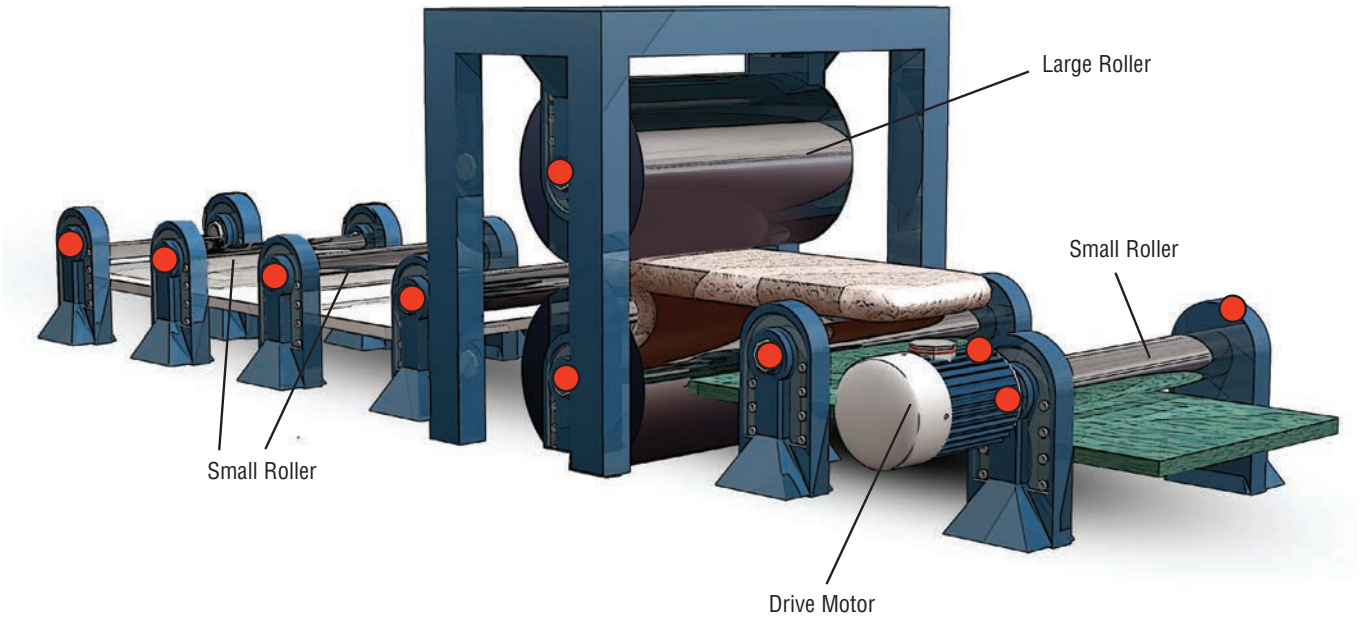
IMI SENSORS
A PCB DIVISION

pcb.com/imi-sensors | 1 800 959 4464

PREDICTIVE MAINTENANCE

Rolling-element bearings are the life blood of many industrial processes including the manufacturing of paper and plastics as well as mining. Often these bearings are located in hot, wet or dangerous areas that are inaccessible to the predictive maintenance professional. Using permanent mount accelerometers will allow the vibration analyst an opportunity to detect critical bearing faults such as pitting or spalling as well as lubrication issues before they cause a critical shutdown.

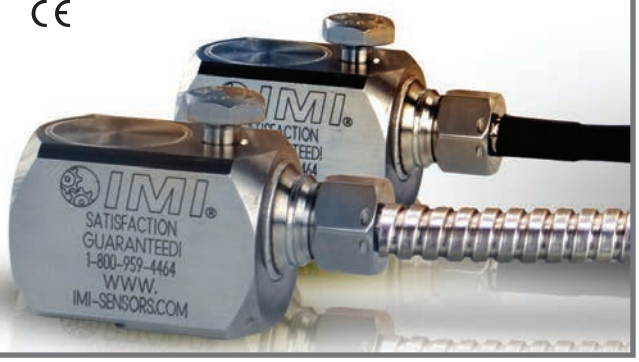
High temperature ICP® accelerometers allow for affordable protection. These designs offer the best high temp capability of any industrial sensor available on the market without an external charge amplifier. Integrated circuit high temp accelerometers can be routed straight to portable data collectors, saving the company money and providing a simple, clean installation.



HIGH TEMPERATURE ICP® ACCELEROMETERS

MODEL HT602D11 & MODEL HT602D61

- Ideal for high temp applications to 325 °F (162 °C)
- Hermetically sealed with integral FEP jacketed cable (optional armor jacket)
- Low profile design eliminates concerns about cable bend radius



HIGH TEMPERATURE ICP® ACCELEROMETERS

HIGH TEMPERATURE ICP® ACCELEROMETER
MODEL HT625B01

- Ceramic sensing element
- Low profile design
- Through-bolt mount

HIGH TEMPERATURE ICP® ACCELEROMETER
MODEL HT622B01

- Ceramic sensing element
- Short settling time
- Welded hermetic

HIGH TEMPERATURE ICP® ACCELEROMETER
MODEL HT628F01

- Quartz sensing element
- Excellent thermal stability
- Welded hermetic

ACCELEROMETERS FOR SLOW SPEED

Rolling-element bearings are difficult to monitor because of their slow speeds. The 1x running speed of the bearing may be lower in frequency than the low frequency range of a typical piezoelectric accelerometer. For these applications IMI Sensors offers low frequency accelerometers. In these models the discharge time constant has been extended, thus allowing the sensor to monitor slower speeds down to 12 CPM (0.2 Hz).

PRECISION ICP® ACCELEROMETER
MODEL 625B01

- Side exit, ring-style
- Low frequency response to 12 cpm (0.2 Hz)
- Ceramic sensing element

PRECISION ICP® ACCELEROMETER
MODEL 626B01

- Low noise floor
- Low frequency response to 12 cpm (0.2 Hz)
- Full sweep calibration

LOW FREQUENCY INDUSTRIAL ICP® ACCELEROMETER
MODEL 626B02

- Full sweep calibration certificate provided

PROCESS MONITORING AND PROTECTION

INDUSTRIAL VELOCITY TRANSMITTER
MODEL 640B01

- Measurement Range: 0.0 to 1 in/sec pk (0.0 to 25.4 mm/s pk
- Frequency Range: (±10%) 180 to 60000 cpm (3 to 1000 Hz)
- Sensing Element: Ceramic

BEARING FAULT DETECTOR
MODEL 682C05

- Provides early warning of bearing and gear faults
- Operates with PLC, DCS, SCADA, alarm and control systems
- Outputs 4-20 mA signals for peak acceleration and overall vibration

BEARING FAULT DETECTOR PLUS
MODEL 649A03

- USB Programmable: Fine tune transmitter to your specific machine parameters
- Various output options: Integrates with your PLC system
- Output specifically tuned for sensing early faults/failures in rolling element bearings

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