

A SENSOR FOR EVERY ASSET

YOUR ASSETS ARE DIVERSE. SO ARE OUR SENSORS.



PUMPS

Function and Types: fluid Transfer (Centrifugal, Reciprocating, Diaphragm, Submersible, Vacuum, Drum, Peristaltic)
Measurement Points: 2, Pump Drive End, Pump Non Drive End
Potential Failure Modes: Imbalance, Misalignment at the coupling with the Motor, Bearings deterioration, Cavitation.



CENTRIFUGES

Function and Types: Density Separation
Measurement Points: 2, Centrifuge Drive End, Centrifuge Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



FANS

Function and Types: Air Movement (Centrifugal, Axial)
Measurement Points: 2, Fan Drive End, Fan Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Rotor mechanical degradation, Resonance.



MIXERS

Function and Types: Material Blending
Measurement Points: 2, Mixer Drive End, Mixer Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



COMPRESSORS

Function and Types: Gas Pressure (Centrifugal, Axial, Reciprocating, Rotary Screws)
Measurement Points: 2/4, Compressor Drive End, Compressor Non Drive End
Potential Failure Modes: Misalignment at the coupling with Motor, Bearings deterioration, Screw mechanical degradation, Piston rings, seals degradation, Damaged Pistons or Cylinders.



CHILLERS

Function and Types: Heat Removal
Measurement Points: 4/7, Motor Drive End, Motor Non Drive End, Main Fan Bearing housing, Compressor body if any.
Potential Failure Modes: Motor and Main Fan Bearings deterioration, Rotor Fan Imbalance, Piping Leakages.



ELECTRIC GENERATORS

Function and Types: Electricity Production
Measurement Points: 2, Motor Drive End, Motor Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Rotor Bars mechanical degradation, Resonance, Soft Foot, Electrical Problems.



COOLING TOWERS – HEAT REJECTION

Function and Types: Heat Rejection
Measurement Points: 2, Motor Non Drive End Side, Motor Drive End Side (Fan Main Bearing)
Potential Failure Modes: Imbalance, Bearings deterioration.



TURBINES

Function and Types: Energy Conversion (Gas, Steam)
Measurement Points: 2/4, Turbine Drive End, Turbine Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Blades mechanical degradation, Resonance, Soft Foot.



BALL MILLS

Function and Types: Material Grinding
Measurement Points: 2, Mill Drive End, Mill Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



MOTORS

Function and Types: Power Conversion (Electrical, Hydraulic)
Measurement Points: 2, Motor Drive End, Motor Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Rotor Bars mechanical degradation, Resonance, Soft Foot, Electrical Problems.



CONVEYORS

Function and Types: Material Transport
Measurement Points: 2/4, Motor + Gearbox, rolling shaft when requested.
Potential Failure Modes: Bearings deterioration, Resonance, Motor and Gearbox mechanical degradation.



ROTARY KILNS – THERMAL PROCESSING

Function and Types: Thermal Processing
Measurement Points: 8, Motor Drive End, Motor Non Drive End, Gearbox high speed drive end, Gearbox low speed drive end, Gearbox high speed non drive end, Gearbox low speed non drive end, Kiln bearing drive end, Kiln bearing non drive end.
Potential Failure Modes: Bearings deterioration, Resonance, Soft Foot, Motor Electrical Problems and Gearbox tooth mechanical degradation.



EXTRUDERS

Function and Types: Profile Shaping
Measurement Points: 2/4, Motor + Gearbox.
Potential Failure Modes: Bearings deterioration, Resonance, Motor and Gearbox mechanical degradation.



ROTARY DRYERS

Function and Types: Material Dryer
Measurement Points: 2, Dryer Drive End, Dryer Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



CYCLONE SEPARATOR

Function and Types: Particulate Removal
Measurement Points: 2, Cyclone main bearings housing
Potential Failure Modes: Imbalance, Bearings deterioration.



GEARBOXES

Function and Types: Speed modification
Measurement Points: depending on the number of reduction shafts. Minimum 4, Gearbox high speed drive end, Gearbox low speed drive end, Gearbox high speed non drive end, Gearbox low speed non drive end.
Potential Failure Modes: Bearings deterioration, Resonance, Soft Foot, and Gearbox tooth mechanical degradation.



ROTARY SCREENS

Function and Types: Material Separation
Measurement Points: 2, Screen Drive End, Screen Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



CRUSHERS

Function and Types: Size Reduction
Measurement Points: 2, Crusher Drive End, crusher Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration.



VIBRATING SCREEN

Function and Types: Particle Separation
Measurement Points: 4, on both screen body sides
Potential Failure Modes: screen overload, screen shading, screen frame damage and inconsistent material flow.



BLOWERS

Function and Types: air Pressure Air Flow (Centrifugal, Axial)
Measurement Points: 2, Blower Drive End, Blower Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Main Rotor damaged.



TURBO EXPANDERS

Function and Types: Gas Pressure Decrease
Measurement Points: 2, Bearing Drive End, Bearing Non Drive End
Potential Failure Modes: Shaft Imbalance, Bearings deterioration, Centrifugal Wheel mechanical degradation.



CYLINDERS

Function and Types: Material movement, utilized in Paper Mills, Steel Mills, Conveyors.
Measurement Points: 2, Cylinder Drive End, Cylinder Non Drive End
Potential Failure Modes: Imbalance, Bearings deterioration, Resonance, Bending.



HAMMER MILLS

Function and Types: Crushes aggregate material into smaller pieces.
Measurement Points: 4, Motor Drive End, Motor Non Drive End, Bearing Drive End, Bearing Non Drive End
Potential Failure Modes: Shaft Misalignment, Bearings deterioration, Hammers mechanical degradation, Soft Foot.