

BODY WELD SHOP

Shop	A Rank Equipment	Failure Mode	Thermal	Current	Vibration	Pressure	Other Sensing Technology
Body Weld	Robot	Motor, Gearbox, or Bearing Damage	Use Sensor on motor to detect bearing temperature due to Friction heat		Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		Kawasaki Software PdM
		Balancer Leak					Use Sensor on balancer to detect pressure loss
	Hem Dies	Motor, Gearbox, or Bearing Damage	Use Sensor on motor to detect bearing temperature due to Friction heat		Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		
		Cylinder Leak					Use logic to monitor cylinder stroke timing to identify leak
	Lifters	Motor, Gearbox, or Bearing Damage	Use Sensor on motor to detect bearing temperature due to Friction heat		Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		
		Chain Stretch					
		Bearing Damage	Use Sensor on bearing to detect bearing temperature due to Friction heat	Use motor current sensor to detect current raise due to friction	Use Sensor on bearing to detect vibration (axle, radius) due to bearing damage		Use Ultrasonic Sensor on bearing to detect noise due to bearing damage

BODY WELD SHOP (CONT.)

Shop	A Rank Equipment	Failure Mode	Thermal	Current	Vibration	Pressure	Other Sensing Technology
Body Weld	Weld Water	Pump Failure	Use Sensor on pump to detect temperature raise due to Friction heat		Use Sensor on pump to detect vibration (axle, radius) due to pump damage	Use sensor on inlet/outlet to monitor for pressure changes due to flow issues	
		Motor, Gearbox, or Bearing Damage	Use Sensor on motor to detect bearing temperature due to Friction heat	Use motor current sensor to detect current raise due to friction	Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		
	Conveyor	Motor, Gearbox, or Bearing Damage	Use Sensor on motor to detect bearing temperature due to Friction heat	Use motor current sensor to detect current raise due to friction	Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		
	Pallet	Bearing Damage	Use Sensor on bearing to detect bearing temperature raise due to Friction heat		Use Sensor on motor to detect vibration (axle, radius) due to bearing damage		