



Predictive Maintenance Technologies Costs

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	VIBRATION ANALYSIS		OIL ANALYSIS		INFRARED		ULTRASOUND		MOTOR CIRCUIT ANALYSIS	
Tools/ Accessories	Vibration Analyzer (2-Channel)	\$ 25,000.00	Sample Analysis (per Sample)	\$ 40.00	Smartphone Sensor (80x60p)	\$ 250.00	Ultrasonic Tool	\$ 10,000.00	Off-line Analyzer	\$ 17,000.00
	Accelerometers (1 axis)	\$ 150.00	Gearbox / Breather	\$ 500.00	Spot Thermal Camera (80x60p)	\$ 350.00	Contact Probe	\$ 1,000.00	On-line Analyzer	\$ 10,000.00
	Accelerometers (3 axis)	\$ 300.00			Portable Inspection Camera (160x120p)	\$ 2,500.00	Ultrasound Generator	\$ 800.00	Motor Test Port	\$ 500.00
	Velocity Sensor	\$ 100.00			Portable Thermog Camera (320x240p)	\$ 12,000.00	Flexible Sensor	\$ 200.00		
	Displacement Sensor	\$ 200.00			Portable HD Camera (1024x768p)	\$ 40,000.00	Paradish Sensor	\$ 400.00		
	Cable (20')	\$ 30.00			Infrared Gas Inspection Camera	\$ 80,000.00	Air Mass Flow Sensor	\$ 500.00		
	Connection Box (12-Ch)	\$ 500.00			IR Windows	\$ 200.00	Acoustic Lube Adaptor	\$ 1,000.00		
	Connection Box (4-Ch)	\$ 150.00			Calibration	\$ 500.00	Ultrasonic Grease Caddy	\$ 1,000.00		
	Calibration	\$ 400.00					Calibration	\$ 400.00		
Labor	In-House Data Collection / FTE	\$120,000 /Year			In-House Data Collection / FTE	\$100,000 /Year	In-House Data Collection / FTE	\$100,000 /Year		
	In-House Analysis / FTE	\$150,000 /Year			In-House Analysis / FTE	\$120,000 /Year	In-House Analysis / FTE	\$120,000 /Year		
	Contracted Data Collection	\$10 /System			Contracted Data Collection / System	\$10 /System				
	Contracted Analysis / System	\$10 /System			Contracted Analysis / System	\$10 /System			Contracted Analysis / System	\$50 / System

Training	Level 1 Certification / Person	\$ 2,000.00	Lube 1 Certification / Person	\$ 1,300.00	Level 1 Certification / Person	\$ 2,000.00	Level 1 Certification / Person	\$ 1,300.00		~
	Level 2 Certification / Person	\$ 2,200.00	Level 2 Certification / Person	\$ 1,300.00	Level 2 Certification / Person	\$ 2,000.00	Level 2 Certification / Person	\$ 1,600.00		~
	Level 3 Certification / Person	\$ 2,400.00	Level 3 Certification / Person	\$ 1,300.00	Level 3 Certification / Person	\$ 2,000.00				~

One-time Cost	Recurring Cost
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