Predictive Maintenance Dashboard

AI-powered equipment health monitoring and failure prediction

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Use Case: predictive-maintenance

Executive Summary

Total Equipment: 50
Operational: 37
Requiring Attention: 13
Maintenance Due (7 days): 4
Average Health Score: 77.8%
Average Efficiency: 82.9%

Critical Equipment Alerts

Equipment ID	Name	Status	Health Score	Location	Department	Days Until Maintenanc	Action
EQ-00001	Injection Molder 1	WARNING	61.7%	Building 1, Floor 2	Warehouse	21	Schedule Maintenance
EQ-00005	CNC Machine 5	WARNING	66.8%	Building 2, Floor 3	Quality Control	82	Schedule Maintenance
EQ-00014	Assembly Robot 14	WARNING	68.1%	Building 2, Floor 2	Warehouse	73	Schedule Maintenance
EQ-00016	CNC Machine 16	WARNING	64.3%	Building 1, Floor 1	Assembly	34	Schedule Maintenance
EQ-00022	Conveyor 22	WARNING	67.7%	Building 3, Floor 3	Packaging	55	Schedule Maintenance
EQ-00023	Packaging Machine 23	WARNING	65.1%	Building 2, Floor 2	Quality Control	88	Schedule Maintenance
EQ-00024	CNC Machine 24	WARNING	67.7%	Building 2, Floor 2	Machining	6	Schedule Maintenance
EQ-00027	Packaging Machine 27	WARNING	68.1%	Building 2, Floor 1	Assembly	21	Schedule Maintenance
EQ-00036	Injection Molder 36	WARNING	64.0%	Building 3, Floor 1	Assembly	50	Schedule Maintenance
EQ-00041	Injection Molder 41	WARNING	60.6%	Building 2, Floor 1	Machining	5	Schedule Maintenance

Predictive

Insights

- ML model predicts 3 potential failures in the next 14 days
- Vibration analysis indicates bearing wear on CNC Machine 12
- Temperature anomaly detected in Injection Molder 5
- Recommended spare parts inventory increase for critical components
- Maintenance schedule optimization can reduce downtime by 23%
- Energy consumption patterns suggest efficiency improvements possible