Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 83.4%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	57.9%	2,036	2,518	97.0%	88.5%	Optimized
Distribution Center B	Dallas, TX	84.9%	2,683	3,932	96.4%	70.7%	Improvement Needed
Distribution Center C	Atlanta, GA	51.6%	1,215	3,095	97.8%	90.5%	Optimized
Distribution Center D	Los Angeles, CA	56.0%	2,331	3,262	96.6%	79.3%	Improvement Needed
Distribution Center E	Newark, NJ	98.7%	2,290	1,597	96.5%	87.8%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking system to improve accuracy to 99.8%

• Upgrade WMS integration for real-time inventory visibility

• Add automated sortation system for small package handling

• Implement predictive analytics for demand-based staffing

• Consider AS/RS system for high-velocity SKUs