Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 75.7%
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	59.5%	1,473	3,470	99.0%	63.4%	Improvement Needed
Distribution Center B	Dallas, TX	58.9%	1,659	2,558	96.1%	90.9%	Optimized
Distribution Center C	Atlanta, GA	65.2%	1,024	2,398	96.1%	87.1%	Optimized
Distribution Center D	Los Angeles, CA	50.0%	2,964	2,805	96.1%	71.8%	Improvement Needed
Distribution Center E	Newark, NJ	127.7%	2,419	2,130	99.3%	65.2%	Improvement Needed

Optimization Opportunities

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

ment 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