Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 73.3%
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	63.9%	1,027	2,631	97.8%	76.4%	Improvement Needed
Distribution Center B	Dallas, TX	56.5%	1,305	2,216	97.7%	75.0%	Improvement Needed
Distribution Center C	Atlanta, GA	48.7%	1,720	1,525	95.5%	76.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.2%	1,342	2,183	97.6%	63.9%	Improvement Needed
Distribution Center E	Newark, NJ	48.7%	2,923	3,593	96.7%	75.2%	Improvement Needed

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