

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 79.8%
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	84.6%	2,733	1,907	97.1%	87.0%	Optimized
	Dallas, TX	53.3%	2,840	1,700	95.6%	81.5%	Optimized
Distribution Center B	Atlanta, GA	83.4%	2,189	2,759	98.8%	60.8%	Improvement Needed
Distribution Center C	Los Angeles, CA	53.0%	2,604	2,106	95.9%	93.0%	Optimized
Distribution Center D	Newark, NJ	72.8%	1,246	3,621	95.1%	76.8%	Improvement Needed
Distribution Center E							

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