

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 79.9%
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	70.3%	1,764	2,751	98.9%	83.3%	Optimized
	Dallas, TX	56.9%	2,546	3,709	99.2%	68.4%	Improvement Needed
Distribution Center B	Atlanta, GA	82.5%	1,372	3,886	95.2%	81.2%	Optimized
Distribution Center C	Los Angeles, CA	81.2%	2,467	3,666	96.5%	73.1%	Improvement Needed
Distribution Center D	Newark, NJ	44.9%	2,375	2,011	98.8%	93.7%	Optimized
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