

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 85.9%
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	51.2%	1,344	3,839	96.6%	84.9%	Optimized
	Dallas, TX	113.3%	1,322	3,624	95.2%	90.3%	Optimized
Distribution Center B	Atlanta, GA	59.7%	1,099	3,242	95.7%	76.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	68.9%	1,429	2,731	96.8%	83.2%	Optimized
Distribution Center D	Newark, NJ	68.0%	2,512	1,678	98.5%	94.8%	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