

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 76.3%
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	64.9%	1,072	2,246	95.7%	80.5%	Optimized
	Dallas, TX	76.8%	2,541	3,976	95.9%	68.2%	Improvement Needed
Distribution Center B	Atlanta, GA	69.7%	1,762	1,636	96.2%	85.6%	Optimized
Distribution Center C	Los Angeles, CA	104.8%	2,041	2,740	95.5%	86.4%	Optimized
Distribution Center D	Newark, NJ	103.1%	2,362	3,041	97.6%	60.8%	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