

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 86.5%
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	86.3%	1,793	3,021	95.8%	68.6%	Improvement Needed
	Dallas, TX	38.8%	2,402	3,102	96.0%	94.4%	Optimized
	Atlanta, GA	73.3%	2,234	3,321	96.9%	93.8%	Optimized
	Los Angeles, CA	40.1%	2,450	3,766	97.6%	91.3%	Optimized
	Newark, NJ	64.7%	1,171	3,669	98.6%	84.6%	Optimized

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