

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 90.0%
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	76.0%	2,142	1,550	96.6%	81.6%	Optimized
	Dallas, TX	74.0%	1,534	3,470	96.2%	94.9%	Optimized
	Atlanta, GA	36.5%	1,596	2,889	98.6%	86.0%	Optimized
	Los Angeles, CA	68.7%	2,497	2,494	99.1%	94.4%	Optimized
	Newark, NJ	86.0%	1,870	2,709	97.2%	93.2%	Optimized
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