

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 83.3%
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	59.6%	1,172	2,118	95.1%	75.2%	Improvement Needed
Distribution Center B	Dallas, TX	60.3%	1,749	3,810	95.1%	89.8%	Optimized
Distribution Center C	Atlanta, GA	38.9%	1,909	3,587	98.3%	85.6%	Optimized
Distribution Center D	Los Angeles, CA	79.9%	1,369	2,499	96.0%	73.1%	Improvement Needed
Distribution Center E	Newark, NJ	103.7%	2,873	1,991	98.2%	92.7%	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