

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 80.6%
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	66.2%	2,254	3,927	99.2%	77.9%	Improvement Needed
Distribution Center B	Dallas, TX	49.7%	1,988	2,319	95.2%	79.7%	Improvement Needed
Distribution Center C	Atlanta, GA	72.4%	1,271	3,172	97.9%	80.6%	Optimized
Distribution Center D	Los Angeles, CA	121.4%	2,175	2,988	96.0%	83.5%	Optimized
Distribution Center E	Newark, NJ	73.5%	2,291	3,884	95.6%	81.5%	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