

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 83.1%
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	70.8%	2,378	1,855	97.5%	87.9%	Optimized
	Dallas, TX	89.6%	1,049	3,914	98.7%	88.4%	Optimized
Distribution Center B	Atlanta, GA	74.5%	1,621	2,743	98.8%	88.0%	Optimized
Distribution Center C	Los Angeles, CA	60.6%	2,767	2,886	97.3%	74.4%	Improvement Needed
Distribution Center D	Newark, NJ	108.6%	1,425	1,908	95.1%	76.7%	Improvement Needed
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