

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 87.2%
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	101.9%	1,323	2,327	96.1%	91.5%	Optimized
	Dallas, TX	77.4%	2,853	3,175	99.3%	91.9%	Optimized
	Atlanta, GA	90.3%	1,539	2,230	97.1%	79.9%	Improvement Needed
Distribution Center B	Los Angeles, CA	118.5%	1,895	3,171	97.6%	87.7%	Optimized
	Newark, NJ	47.5%	1,436	1,909	95.0%	85.0%	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