

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 86.2%
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	38.6%	1,783	2,095	98.3%	90.5%	Optimized
	Dallas, TX	84.3%	1,948	3,043	97.3%	70.9%	Improvement Needed
Distribution Center B	Atlanta, GA	80.6%	1,451	3,066	96.6%	91.7%	Optimized
Distribution Center C	Los Angeles, CA	94.9%	2,109	3,414	96.3%	91.3%	Optimized
Distribution Center D	Newark, NJ	63.5%	1,636	1,862	99.0%	86.8%	Optimized
Distribution 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