

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 77.7%
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	106.2%	1,743	1,727	99.0%	92.5%	Optimized
	Dallas, TX	77.7%	1,929	3,804	98.1%	68.5%	Improvement Needed
Distribution Center B	Atlanta, GA	95.5%	2,192	3,420	97.4%	84.9%	Optimized
Distribution Center C	Los Angeles, CA	100.5%	1,265	3,540	98.6%	75.0%	Improvement Needed
	Newark, NJ	87.6%	2,201	2,000	96.5%	67.7%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment voice-
picking
system to
improve
accuracy to
99.8%

- Upgra
de WMS
integration
for real-time
inventory
visibility

- Add au
tomated
sortation
system for
small
package
handling

- Imple
ment
predictive
analytics for
demand-
based
staffing

- Consid
er AS/RS
system for
high-
velocity
SKUs