

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 75.6%
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	75.5%	2,274	2,275	98.8%	88.5%	Optimized
	Dallas, TX	71.7%	1,691	1,526	96.9%	67.9%	Improvement Needed
Distribution Center B	Atlanta, GA	37.1%	1,303	3,177	97.4%	91.9%	Optimized
Distribution Center C	Los Angeles, CA	61.6%	1,433	3,162	98.0%	64.5%	Improvement Needed
	Newark, NJ	89.0%	1,935	3,807	97.9%	65.3%	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