

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: 71.5%
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	90.9%	1,842	3,310	99.2%	64.4%	Improvement Needed
Distribution Center B	Dallas, TX	37.5%	1,906	3,011	97.6%	80.8%	Optimized
Distribution Center C	Atlanta, GA	54.5%	2,860	2,110	98.0%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.3%	1,313	2,389	98.4%	63.6%	Improvement Needed
Distribution Center E	Newark, NJ	78.3%	2,686	2,651	98.1%	81.2%	Optimized

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