

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: 78.5%
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	69.4%	2,320	2,598	95.6%	87.8%	Optimized
	Dallas, TX	116.3%	2,823	3,369	98.8%	61.4%	Improvement Needed
Distribution Center B	Atlanta, GA	47.8%	1,098	1,765	95.5%	94.4%	Optimized
Distribution Center C	Los Angeles, CA	88.6%	2,596	2,143	97.6%	78.8%	Improvement Needed
	Newark, NJ	65.3%	2,842	3,733	95.8%	69.7%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for all automated systems

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