

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 77.6%
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	61.0%	1,234	3,877	97.1%	84.3%	Optimized
	Dallas, TX	89.1%	1,932	3,659	97.1%	75.8%	Improvement Needed
Distribution Center B	Atlanta, GA	53.3%	2,978	2,354	99.3%	88.1%	Optimized
Distribution Center C	Los Angeles, CA	59.2%	2,239	3,137	96.9%	63.6%	Improvement Needed
	Newark, NJ	52.3%	1,774	2,201	98.0%	76.2%	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