

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 72.5%
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	87.1%	1,753	3,208	97.0%	90.5%	Optimized
	Dallas, TX	61.3%	1,133	2,210	96.3%	60.2%	Improvement Needed
Distribution Center B	Atlanta, GA	87.6%	1,368	1,579	96.9%	86.4%	Optimized
	Los Angeles, CA	124.4%	2,390	1,759	98.6%	62.0%	Improvement Needed
Distribution Center C	Newark, NJ	51.9%	2,251	2,217	95.0%	63.2%	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