

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 79.7%
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	83.9%	1,390	2,102	95.4%	85.4%	Optimized
	Dallas, TX	107.2%	2,250	2,547	96.9%	86.3%	Optimized
Distribution Center B	Atlanta, GA	38.1%	1,006	1,956	95.6%	78.8%	Improvement Needed
Distribution Center C	Los Angeles, CA	71.6%	2,703	2,396	97.2%	77.3%	Improvement Needed
Distribution Center D	Newark, NJ	50.4%	1,232	3,527	95.6%	70.7%	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