

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 81.4%
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	37.1%	1,197	2,943	99.2%	79.4%	Improvement Needed
Distribution Center B	Dallas, TX	71.7%	2,461	2,663	98.1%	88.5%	Optimized
Distribution Center C	Atlanta, GA	78.7%	2,153	3,994	98.5%	74.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	96.7%	2,956	2,663	99.0%	88.8%	Optimized
Distribution Center E	Newark, NJ	63.9%	2,004	2,560	98.9%	76.1%	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