

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 79.5%
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	82.0%	1,863	2,931	99.1%	70.4%	Improvement Needed
Distribution Center B	Dallas, TX	51.9%	2,537	2,313	95.9%	77.2%	Improvement Needed
Distribution Center C	Atlanta, GA	41.5%	1,800	2,481	96.0%	92.9%	Optimized
Distribution Center D	Los Angeles, CA	57.1%	1,257	1,739	96.5%	91.1%	Optimized
Distribution Center E	Newark, NJ	74.2%	1,839	1,645	95.2%	66.1%	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