

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
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	69.5%	1,760	1,852	98.0%	84.9%	Optimized
	Dallas, TX	93.1%	2,228	2,088	95.1%	70.4%	Improvement Needed
Distribution Center B	Atlanta, GA	100.7%	2,677	3,195	98.7%	69.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.6%	1,580	1,887	99.4%	94.9%	Optimized
Distribution Center E	Newark, NJ	64.1%	2,550	2,101	96.7%	68.9%	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