

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: 77.3%
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%	1,612	3,970	98.4%	92.8%	Optimized
	Dallas, TX	121.5%	1,035	1,963	97.5%	68.9%	Improvement Needed
Distribution Center B	Atlanta, GA	46.8%	1,260	3,928	99.1%	78.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	103.8%	2,348	2,765	99.2%	85.8%	Optimized
Distribution Center E	Newark, NJ	80.8%	2,933	1,575	97.3%	60.7%	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