

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 82.8%
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	56.9%	1,301	3,287	97.6%	93.7%	Optimized
	Dallas, TX	42.1%	2,052	3,497	99.0%	95.0%	Optimized
Distribution Center B	Atlanta, GA	97.7%	1,346	3,986	96.5%	70.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.3%	2,451	1,764	97.4%	77.2%	Improvement Needed
Distribution Center E	Newark, NJ	43.7%	1,193	1,933	96.7%	77.5%	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