

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.1%
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	69.6%	2,797	2,837	95.1%	88.6%	Optimized
	Dallas, TX	86.3%	1,159	3,088	96.2%	62.7%	Improvement Needed
Distribution Center B	Atlanta, GA	80.2%	1,613	2,840	97.2%	62.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	52.2%	1,833	3,806	98.7%	71.7%	Improvement Needed
Distribution Center E	Newark, NJ	76.3%	1,786	1,742	98.8%	90.5%	Optimized

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