

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 77.7%
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	101.1%	2,914	2,016	96.6%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	75.5%	1,563	2,669	98.4%	60.5%	Improvement Needed
Distribution Center C	Atlanta, GA	41.6%	1,492	3,198	97.5%	71.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	52.9%	2,786	2,004	98.2%	83.1%	Optimized
Distribution Center E	Newark, NJ	60.1%	1,016	2,974	96.7%	93.9%	Optimized

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