

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 75.4%
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	116.1%	1,359	3,537	96.4%	73.5%	Improvement Needed
Distribution Center B	Dallas, TX	78.1%	2,941	2,421	98.8%	85.5%	Optimized
Distribution Center C	Atlanta, GA	67.9%	2,700	3,725	95.1%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	80.7%	2,844	2,960	95.7%	85.6%	Optimized
Distribution Center E	Newark, NJ	56.2%	2,666	3,754	97.0%	67.3%	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