Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5 Total Robots: 56

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	n Status
Distribution Chicago, IL Center A	85.3%	1,109	2,550	96.8%	65.5%	Improvemen t Needed
Distribution Dallas, TX Center B	89.1%	1,848	2,468	95.1%	71.1%	Improvemen t Needed
Distribution Atlanta, GA	109.1%	2,114	2,517	99.4%	94.2%	Optimized
Center C Distribution Los	108.6%	1,611	2,729	96.8%	83.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 103.0%	2,883	3,202	98.8%	72.4%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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 highvelocity SKUs