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: 57

Average Utilization: 76.5% 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	77.9%	1,667	3,721	97.3%	64.1%	Improvemen t Needed
Distribution Dallas, TX Center B	66.4%	1,691	2,623	97.5%	77.9%	Improvemen t Needed
Distribution Atlanta, GA	70.7%	1,170	2,866	99.2%	83.1%	Optimized
Center C Distribution Los	66.8%	1,988	3,703	98.5%	86.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 97.6%	2,046	2,121	97.5%	70.6%	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