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: 64

Average Utilization: 76.8% 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	41.1%	2,791	3,397	96.2%	74.9%	Improvemen t Needed
Distribution Dallas, TX Center B	52.7%	1,383	1,983	96.3%	68.4%	Improvemen t Needed
Distribution Atlanta, GA	69.2%	2,182	2,766	98.3%	87.7%	Optimized
Center C Distribution Los	50.4%	2,506	1,793	98.2%	86.4%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 57.7%	2,289	3,967	98.8%	66.5%	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