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: 55

Average Utilization: 76.9% 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	68.7%	1,555	2,200	98.1%	61.9%	Improvemen t Needed
Distribution Dallas, TX Center B	58.9%	1,605	1,902	95.9%	78.3%	Improvemen t Needed
Distribution Atlanta, GA	77.7%	2,072	1,809	96.4%	94.8%	Optimized
Center C Distribution Los	49.9%	1,364	2,616	98.5%	88.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	92.5%	1,422	1,707	96.4%	61.0%	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