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: 35

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	100.3%	2,948	1,702	98.8%	66.3%	Improvemen t Needed
Distribution Dallas, TX Center B	107.4%	2,569	1,734	98.1%	79.5%	Improvemen t Needed
Distribution Atlanta, GA	66.6%	1,901	3,738	98.3%	81.7%	Optimized
Center C Distribution Los	56.0%	1,195	2,522	95.1%	89.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.0%	2,548	1,772	98.0%	65.7%	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