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: 54

Average Utilization: 83.0% 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	96.3%	1,791	2,903	97.8%	89.0%	Optimized
Center A Distribution Dallas, TX Center B	67.3%	2,754	3,851	95.9%	64.9%	Improvemen t Needed
Distribution Atlanta, GA	65.1%	2,220	2,445	95.7%	88.0%	Optimized
Center C Distribution Los	68.7%	1,559	2,086	96.6%	82.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 59.5%	1,508	2,050	98.8%	90.3%	Optimized

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