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: 71

Average Utilization: 76.6% 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	110.8%	1,356	3,502	98.6%	86.4%	Optimized
Center A Distribution Dallas, TX Center B	38.9%	1,364	2,078	97.5%	68.5%	Improvemen t Needed
Distribution Atlanta, GA	93.3%	2,093	3,851	96.7%	85.0%	Optimized
Center C Distribution Los	70.1%	2,168	2,306	98.8%	81.2%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 84.7%	1,768	2,791	95.9%	61.8%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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