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: 56

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	39.2%	1,733	2,888	98.3%	91.9%	Optimized
Center A Distribution Dallas, TX Center B	67.1%	2,381	1,849	98.6%	73.3%	Improvemen t Needed
Distribution Atlanta, GA	45.4%	1,259	2,407	98.7%	88.2%	Optimized
Center C Distribution Los	33.6%	2,213	3,561	96.5%	87.5%	Optimized
Genter D Distribution Newark, NJ Center E	^A 64.5%	1,770	3,193	98.9%	73.9%	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