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: 43

Average Utilization: 80.0% 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 Center A	93.2%	2,311	3,082	99.1%	71.5%	Improvemen t Needed
Distribution Dallas, TX	42.4%	2,040	3,621	98.6%	84.8%	Optimized
Center B Distribution Atlanta, GA	100.2%	2,947	3,999	99.4%	88.1%	Optimized
Center C Distribution Los	112.1%	2,239	1,677	96.1%	91.3%	Optimized
Genter D Distribution Newark, NJ Center E	^A 75.9%	1,808	1,708	97.6%	64.5%	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