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: 58

Average Utilization: 79.7% 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	Status
Distribution Chicago, IL	43.6%	1,365	2,274	97.1%	91.6%	Optimized
Center A Distribution Dallas, TX Center B	122.5%	2,261	3,357	96.8%	71.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	57.5%	2,763	3,433	98.3%	63.3%	Improvemen t Needed
Distribution Los	62.4%	2,583	3,809	96.4%	84.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 42.5%	1,586	2,409	95.3%	87.9%	Optimized

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