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: 59

Average Utilization: 80.6% 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 Center A	79.6%	2,393	3,886	95.2%	73.8%	Improvemen t Needed
Distribution Dallas, TX Center B	85.9%	1,491	2,820	97.8%	66.7%	Improvemen t Needed
Distribution Atlanta, GA	61.6%	1,194	1,882	97.0%	88.6%	Optimized
Center C Distribution Los	46.3%	2,858	1,552	97.0%	83.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 65.5%	2,230	3,978	98.3%	90.6%	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