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: 32

Average Utilization: 77.7% 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	n Status
Distribution Chicago, IL Center A	76.5%	1,496	1,947	97.7%	77.1%	Improvemen t Needed
Distribution Dallas, TX Center B	113.4%	1,797	3,858	98.1%	61.5%	Improvemen t Needed
Distribution Atlanta, GA	53.1%	2,214	2,965	99.2%	88.8%	Optimized
Center C Distribution Los	77.6%	1,790	2,326	97.4%	80.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 34.9%	2,859	1,805	99.0%	80.5%	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