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: 77.4% 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	92.0%	1,445	1,728	95.2%	61.8%	Improvemen t Needed
Distribution Dallas, TX Center B	76.8%	1,487	2,339	99.2%	77.7%	Improvemen t Needed
Distribution Atlanta, GA	67.8%	2,026	2,001	95.2%	80.0%	Optimized
Center C Distribution Los	67.3%	2,669	2,247	96.3%	81.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 99.3%	2,817	3,148	96.4%	86.1%	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