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: 45

Average Utilization: 82.2% 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	77.5%	1,398	3,502	97.2%	67.5%	Improvemen t Needed
Distribution Dallas, TX	81.4%	2,570	1,631	96.9%	81.4%	Optimized
Center B Distribution Atlanta, GA	53.6%	1,476	3,838	95.9%	93.6%	Optimized
Center C Distribution Los	39.0%	1,656	1,799	95.1%	90.4%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 74.4%	2,279	2,983	98.4%	77.9%	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