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: 62

Average Utilization: 80.7% 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	61.9%	2,663	1,979	98.8%	72.4%	Improvemen t Needed
Distribution Dallas, TX	67.4%	2,408	2,570	97.3%	84.6%	Optimized
Center B Distribution Atlanta, GA	68.7%	1,832	1,627	96.2%	87.6%	Optimized
Center C Distribution Los	45.3%	2,003	2,407	98.8%	93.6%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 53.4%	1,213	3,777	97.1%	65.2%	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