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: 39

Average Utilization: 80.2% 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	59.4%	1,737	3,327	96.2%	61.5%	Improvemen t Needed
Distribution Dallas, TX		1,012	3,173	99.5%	86.4%	Optimized
Center B Distribution Atlanta, GA	120.4%	2,221	2,486	97.0%	94.8%	Optimized
Center C Distribution Los	63.1%	2,926	1,974	95.0%	89.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 73.3%	2,465	2,494	96.9%	68.4%	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