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: 46

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	63.8%	2,282	1,619	95.1%	68.0%	Improvemen t Needed
Distribution Dallas, TX	128.0%	2,265	2,422	95.5%	94.2%	Optimized
Center B Distribution Atlanta, GA	71.0%	2,360	1,885	97.1%	87.6%	Optimized
Center C Distribution Los	79.6%	2,940	2,769	96.2%	80.8%	Optimized
Center E Angeles, Content E	^A 37.0%	2,481	3,398	96.0%	73.1%	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