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: 33

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	44.7%	1,675	3,657	97.0%	68.5%	Improvemen t Needed
Distribution Dallas, TX	113.8%	1,747	3,163	97.3%	91.3%	Optimized
Center B Distribution Atlanta, GA	95.2%	2,849	1,671	98.6%	92.7%	Optimized
Center C Distribution Los	74.5%	1,591	3,105	98.5%	82.8%	Optimized
Center D Angeles, CA Center E	¹ 55.7%	2,873	1,682	96.9%	68.3%	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