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: 60

Average Utilization: 83.2% 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	47.4%	2,797	1,972	96.6%	79.9%	Improvemen t Needed
Distribution Dallas, TX Center B	62.7%	2,135	1,858	96.2%	68.0%	Improvemen t Needed
Distribution Atlanta, GA	67.5%	1,862	2,117	98.9%	94.2%	Optimized
Center C Distribution Los	51.1%	1,498	2,083	98.1%	92.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 59.5%	2,668	3,283	97.7%	81.5%	Optimized

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