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: 76.1% 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	76.3%	1,937	2,936	96.3%	64.2%	Improvemen t Needed
Distribution Dallas, TX	55.3%	2,674	2,299	97.4%	82.3%	Optimized
Center B Distribution Atlanta, GA Center C	63.2%	1,974	3,938	98.3%	64.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	88.9%	2,368	2,574	97.2%	88.7%	Optimized
	⁴ 58.7%	2,121	1,528	99.5%	80.8%	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