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: 37

Average Utilization: 83.0% 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	86.5%	1,808	2,865	99.0%	69.2%	Improvemen t Needed
Distribution Dallas, TX	64.6%	1,673	3,578	95.6%	90.2%	Optimized
Center B Distribution Atlanta, GA Center C	58.8%	2,459	3,910	98.0%	75.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	54.6%	1,116	2,953	95.5%	85.5%	Optimized
	¹ 126.9%	2,666	3,303	97.1%	94.4%	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