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: 52

Average Utilization: 80.6% 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	55.4%	2,312	3,690	95.3%	65.9%	Improvemen t Needed
Distribution Dallas, TX	75.2%	1,089	3,970	98.2%	80.1%	Optimized
Center B Distribution Atlanta, GA Center C	53.2%	1,117	3,230	95.3%	77.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	71.6%	2,727	3,479	97.9%	86.2%	Optimized
	⁴ 54.5%	2,701	1,595	99.4%	93.7%	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