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: 57

Average Utilization: 81.2% 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	Status
Distribution Chicago, IL	61.2%	2,848	2,034	95.0%	92.2%	Optimized
Center A Distribution Dallas, TX		1,120	3,940	98.3%	88.0%	Optimized
Center B Distribution Atlanta, GA Center C	41.8%	1,279	3,847	95.8%	68.1%	Improvemen t Needed
Distribution Los	47.3%	2,910	3,212	99.3%	90.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 59.8%	2,800	2,041	95.5%	66.8%	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