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: 49

Average Utilization: 83.7% 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		2,561	2,964	97.1%	88.9%	Optimized
Center A Distribution Dallas, TX		1,220	2,096	95.1%	81.5%	Optimized
Center B Distribution Atlanta, GA Center C	88.3%	1,138	2,913	97.3%	74.8%	Improvemen t Needed
Distribution Los	38.7%	1,715	3,123	98.1%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 83.3%	2,055	2,985	98.4%	78.7%	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