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: 32

Average Utilization: 84.1% 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	Status
Distribution Chicago, IL Center A	37.8%	2,802	2,672	95.2%	78.8%	Improvemen t Needed
Distribution Dallas, TX	119.2%	2,917	1,575	96.9%	82.5%	Optimized
Center B Distribution Atlanta, GA Center C	58.0%	2,447	1,657	95.7%	74.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	58.5%	2,070	3,688	97.0%	95.0%	Optimized
	⁴ 43.1%	1,421	3,516	96.4%	89.9%	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