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: 56

Average Utilization: 73.9% 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	112.7%	2,093	1,607	98.3%	74.3%	Improvemen t Needed
Distribution Dallas, TX Center B	102.6%	2,621	1,875	97.6%	62.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	62.9%	1,400	2,238	97.3%	61.7%	Improvemen t Needed
Distribution Los	55.2%	2,421	1,523	99.4%	81.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 59.8%	1,696	3,860	98.8%	89.7%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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