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: 45

Average Utilization: 79.1% 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	n Status
Distribution Chicago, IL Center A	95.9%	1,643	2,098	98.7%	75.6%	Improvemen t Needed
Distribution Dallas, TX Center B	58.9%	1,488	3,450	98.8%	77.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	62.5%	2,049	3,607	98.5%	68.7%	Improvemen t Needed
Distribution Los	97.4%	2,039	3,811	95.8%	90.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 84.8%	1,657	3,645	98.6%	83.3%	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