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: 78.2% 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 Center A	60.8%	2,018	2,507	98.4%	70.7%	Improvemen t Needed
Distribution Dallas, TX Center B	66.9%	1,283	1,604	98.2%	70.7%	Improvemen t Needed
Distribution Atlanta, GA	113.2%	2,816	2,131	97.9%	88.6%	Optimized
Center C Distribution Los Center D Angeles, CA	58.5% \	2,570	3,301	99.5%	71.7%	Improvemen t Needed
Distribution Newark, NJ Center E	77.6%	2,695	2,051	98.9%	89.4%	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