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: 18

Average Utilization: 81.8% 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	68.8%	2,827	2,192	97.3%	88.0%	Optimized
Center A Distribution Dallas, TX Center B	44.5%	1,695	2,043	96.9%	60.2%	Improvemen t Needed
Distribution Atlanta, GA	42.2%	1,630	2,196	98.8%	84.1%	Optimized
Center C Distribution Los	66.0%	1,268	2,689	96.5%	84.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 78.5%	2,144	1,561	96.0%	92.8%	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