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: 82.4% 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	111.0%	2,297	1,894	97.5%	72.9%	Improvemen t Needed
Distribution Dallas, TX	96.1%	1,805	1,583	97.4%	82.7%	Optimized
Center B Distribution Atlanta, GA	49.5%	2,195	1,740	96.6%	89.2%	Optimized
Center C Distribution Los	107.2%	1,886	3,932	96.7%	85.4%	Optimized
Genter D Distribution Newark, NJ Center E	^A 66.2%	1,387	1,501	97.9%	82.1%	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