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: 42

Average Utilization: 85.2% 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	n Status
Distribution Chicago, IL Center A	89.1%	1,036	1,572	97.3%	72.1%	Improvemen t Needed
Distribution Dallas, TX	90.1%	1,107	1,663	95.8%	81.1%	Optimized
Center B Distribution Atlanta, GA	33.7%	2,677	1,897	99.2%	93.8%	Optimized
Center C Distribution Los	90.4%	1,279	3,984	96.1%	84.5%	Optimized
Genter D Distribution Newark, NJ Center E	^A 56.0%	1,222	2,388	95.7%	94.5%	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