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: 47

Average Utilization: 83.6% 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	41.5%	2,061	3,168	99.0%	66.6%	Improvemen t Needed
Distribution Dallas, TX	54.6%	2,443	2,628	96.8%	83.9%	Optimized
Center B Distribution Atlanta, GA	106.8%	2,834	1,667	95.8%	82.8%	Optimized
Center C Distribution Los	89.7%	2,790	1,888	96.1%	93.9%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 70.3%	1,059	2,770	95.8%	90.6%	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