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: 54

Average Utilization: 80.7% 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	97.9%	1,467	3,120	99.2%	64.2%	Improvemen t Needed
Distribution Dallas, TX	69.8%	1,110	1,769	99.2%	81.9%	Optimized
Center B Distribution Atlanta, GA	49.8%	1,354	3,084	96.9%	81.0%	Optimized
Center C Distribution Los	82.4%	1,231	3,130	95.7%	81.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 95.7%	2,653	1,804	96.8%	94.3%	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