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: 49

Average Utilization: 84.8% 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	46.2%	2,057	2,732	99.4%	83.0%	Optimized
Center A Distribution Dallas, TX	113.7%	2,402	2,169	99.4%	92.9%	Optimized
Center B Distribution Atlanta, GA	76.8%	1,364	2,322	99.2%	90.0%	Optimized
Center C Distribution Los	56.2%	1,857	1,518	95.2%	91.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 92.1%	1,672	3,468	97.7%	66.8%	Improvemen t Needed

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