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: 79

Average Utilization: 85.0% 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	55.0%	2,556	2,647	97.6%	83.7%	Optimized
Center A Distribution Dallas, TX		1,226	3,038	95.2%	87.1%	Optimized
Center B Distribution Atlanta, GA	57.6%	1,919	1,843	97.0%	85.9%	Optimized
Center C Distribution Los	82.0%	1,766	1,870	98.4%	93.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 42.6%	2,335	3,204	99.4%	75.0%	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