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: 44

Average Utilization: 73.7% 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	73.1%	2,538	3,134	95.9%	64.7%	Improvemen t Needed
Distribution Dallas, TX Center B	48.2%	1,881	2,964	97.0%	66.9%	Improvemen t Needed
Distribution Atlanta, GA	78.4%	2,764	2,222	95.6%	80.6%	Optimized
Center C Distribution Los	63.1%	1,133	2,050	95.4%	94.5%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	¹ 60.1%	2,850	1,919	95.9%	61.9%	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