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: 42

Average Utilization: 86.2% 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	84.1%	2,817	2,853	98.6%	81.8%	Optimized
Center A Distribution Dallas, TX	52.1%	1,768	3,290	96.4%	88.5%	Optimized
Center B Distribution Atlanta, GA	70.4%	1,634	3,187	97.3%	94.1%	Optimized
Center C Distribution Los	54.7%	2,679	2,777	95.6%	90.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 88.0%	1,734	3,017	95.0%	75.9%	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