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: 76.8% 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 Center A	63.8%	2,255	1,954	97.6%	75.9%	Improvemen t Needed
Distribution Dallas, TX Center B	44.4%	2,187	3,332	96.1%	74.2%	Improvemen t Needed
Distribution Atlanta, GA	51.7%	1,092	2,227	97.2%	85.2%	Optimized
Center C Distribution Los	65.6%	1,263	3,841	95.4%	88.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 80.7%	1,439	3,494	95.8%	60.4%	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