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: 53

Average Utilization: 75.3% 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	90.3%	1,686	2,131	96.2%	67.0%	Improvemen t Needed
Distribution Dallas, TX Center B	63.5%	1,814	3,442	97.2%	75.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	31.3%	1,692	2,439	95.1%	62.8%	Improvemen t Needed
Distribution Los	60.6%	1,210	3,778	95.0%	88.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 136.3%	1,382	3,615	97.7%	82.7%	Optimized

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