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: 39

Average Utilization: 72.9% 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	57.3%	1,772	2,685	96.9%	70.5%	Improvemen t Needed
Distribution Dallas, TX Center B	56.5%	2,019	3,613	98.0%	61.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	68.1%	1,485	2,857	96.1%	61.4%	Improvemen t Needed
Distribution Los	97.7%	2,494	3,269	99.3%	89.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 63.2%	2,705	2,666	95.5%	81.5%	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