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: 43

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	36.4%	2,000	3,004	98.1%	75.6%	Improvemen t Needed
Distribution Dallas, TX Center B	43.5%	1,634	3,715	95.4%	62.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	72.9%	1,734	2,843	97.2%	73.3%	Improvemen t Needed
Distribution Los	90.1%	2,270	2,607	99.5%	83.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 76.3%	2,619	3,252	97.1%	90.4%	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