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: 76.2% 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 Center A	94.6%	1,773	2,680	97.6%	63.9%	Improvemen t Needed
Distribution Dallas, TX Center B	95.2%	1,748	2,076	95.1%	73.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	50.2%	2,201	2,507	99.0%	72.3%	Improvemen t Needed
Distribution Los	74.1%	1,558	3,130	97.3%	89.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 94.0%	2,903	3,495	99.3%	81.0%	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