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: 36

Average Utilization: 87.3% 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	50.9%	2,125	3,784	96.8%	83.8%	Optimized
Center A Distribution Dallas, TX	72.8%	1,165	3,156	97.9%	87.6%	Optimized
Center B Distribution Atlanta, GA	111.6%	2,381	2,520	97.1%	88.3%	Optimized
Center C Distribution Los	104.3%	2,974	1,616	96.4%	91.4%	Optimized
Center D Angeles, CA Newark, NJ	^A 102.9%	2,002	2,455	95.4%	85.2%	Optimized
Center E						

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