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: 37

Average Utilization: 87.7% 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		2,231	2,424	98.5%	82.9%	Optimized
Center A Distribution Dallas, TX	56.7%	2,268	2,128	98.8%	94.9%	Optimized
Center B Distribution Atlanta, GA	83.5%	1,450	2,149	98.6%	81.2%	Optimized
Center C Distribution Los	86.6%	2,818	1,834	97.9%	88.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 56.2%	1,712	1,824	96.4%	90.6%	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