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: 58

Average Utilization: 89.3% 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	76.2%	1,472	2,520	97.8%	92.5%	Optimized
Center A Distribution Dallas, TX	54.9%	2,338	3,762	97.8%	86.7%	Optimized
Center B Distribution Atlanta, GA	46.6%	1,738	3,985	96.0%	92.1%	Optimized
Center C Distribution Los	63.8%	1,263	2,721	97.5%	81.1%	Optimized
Center D Angeles, CA Newark, NJ	[\] 43.6%	2,963	2,952	98.9%	94.1%	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