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: 41

Average Utilization: 74.6% 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 Status Level	
Distribution (Center A	Chicago, IL	65.3%	2,711	2,068	97.0%	67.3%	Improvemen t Needed
Distribution I Center B	Dallas, TX	52.3%	1,030	2,336	96.6%	65.8%	Improvemen t Needed
Distribution A	•	45.8%	2,664	2,791	96.6%	86.8%	Optimized
Center C Distribution L Center D	_os Angeles, CA	91.5%	2,137	1,619	95.8%	71.4%	Improvemen t Needed
Distribution N Center E	Newark, NJ	74.7%	2,086	3,041	99.4%	81.8%	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