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: 45

Average Utilization: 76.9% 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	Chicago, IL	57.1%	1,137	1,904	95.8%	82.4%	Optimized
	Dallas, TX	62.4%	1,709	2,401	97.7%	88.0%	Optimized
Center B Distribution Center C	Atlanta, GA	62.9%	1,183	3,183	95.1%	71.5%	Improvemen t Needed
Distribution Center D	Los Angeles, CA	73.5% \	1,914	3,141	97.6%	79.4%	Improvemen t Needed
Distribution Center E	Newark, NJ	67.7%	2,081	1,803	96.3%	63.2%	Improvemen t Needed

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