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: 51

Average Utilization: 75.8% 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	77.7%	1,594	2,858	98.8%	90.4%	Optimized
	Center A Distribution Dallas, TX Center B	67.9%	2,815	3,110	98.7%	67.0%	Improvemen t Needed
	Distribution Atlanta, GA Center C	94.1%	1,743	3,153	98.8%	79.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	83.3% N	1,430	2,826	97.4%	61.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	56.3%	2,348	3,694	98.1%	80.7%	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