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: 52

Average Utilization: 74.4% 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 Center A	81.3%	2,389	2,535	96.7%	67.7%	Improvemen t Needed
	,,	74.2%	1,439	2,315	96.2%	87.2%	Optimized
	Center B Distribution Atlanta, GA Center C	102.8%	2,510	2,479	97.5%	63.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	71.9% A	2,027	2,826	97.5%	66.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	74.6%	2,909	2,313	99.2%	86.4%	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