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: 78

Average Utilization: 74.1% 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	113.8%	2,571	2,517	98.3%	81.8%	Optimized
	Center A Distribution Dallas, TX Center B	34.1%	2,262	3,183	96.5%	62.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	48.9%	2,076	3,479	97.6%	69.1%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	118.2% \	1,385	2,858	97.6%	72.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	61.3%	1,950	2,865	97.8%	84.5%	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