Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:00 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36

Average Utilization: 71.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Locati	on Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chicag Center A	jo, IL 68.9%	1,098	1,823	97.8%	60.4%	Improvemen t Needed
Distribution Dallas,	TX 110.5%	2,226	3,447	99.2%	88.2%	Optimized
Center B Distribution Atlanta Center C	ı, GA 43.4%	2,918	3,398	97.9%	62.8%	Improvemen t Needed
Distribution Los	111.0%	1,590	3,707	98.7%	85.6%	Optimized
Center D Angele Distribution Newarl Center E	k, NJ 53.6%	2,553	3,489	98.7%	60.2%	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