Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:23 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 43

Average Utilization: 68.6% 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 Chic Center A	cago, IL	43.0%	1,488	3,433	95.4%	68.2%	Improvemen t Needed
Distribution Dall Center B	as, TX	85.9%	2,744	2,535	98.5%	63.3%	Improvemen t Needed
Distribution Atla Center C	nta, GA	69.6%	1,097	2,070	98.5%	78.6%	Improvemen t Needed
Distribution Los Center D Ang	eles, CA	62.7% N	2,349	1,559	96.8%	63.3%	Improvemen t Needed
Distribution New Center E	ark, NJ	74.6%	2,876	1,795	95.3%	69.7%	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