Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:16 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 26

Average Utilization: 72.9% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Loc	ation Capacit Used	ty Inbound Day	l/ Outbound Day	Picking Accuracy	Automation Status Level	
Distribution Chic Center A	ago, IL 86.2%	2,909	3,005	96.6%	62.3%	Improvemen t Needed
Distribution Dalla Center B	as, TX 112.2%	1,342	2,794	98.4%	76.9%	Improvemen t Needed
Distribution Atlar Center C	nta, GA 80.3%	2,305	3,990	97.5%	79.9%	Improvemen t Needed
Distribution Los Center D Ange	31.0% eles, CA	2,973	3,999	99.0%	76.3%	Improvemen t Needed
Distribution New Center E	ark, NJ 67.9%	1,028	2,911	95.1%	68.9%	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