Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:52 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 73.9% 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 Level	n Status
Distribution Chicago, IL Center A	65.9%	1,193	3,618	96.4%	65.3%	Improvemen t Needed
Distribution Dallas, TX Center B	62.2%	2,153	2,125	96.4%	62.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	61.4%	2,332	1,625	95.8%	66.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	68.5%	2,858	2,082	99.0%	94.2%	Optimized
	^A 86.4%	2,786	1,968	96.2%	82.0%	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