Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:49 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 52

Average Utilization: 78.0% 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	94.8%	1,227	3,050	98.9%	77.1%	Improvemen t Needed
Distribution Dallas, TX Center B	95.8%	1,036	1,635	96.2%	65.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	106.4%	2,984	1,997	95.7%	71.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	61.2%	1,965	2,745	98.4%	91.4%	Optimized
	^A 67.2%	1,763	1,668	96.9%	84.8%	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