Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:19 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 48

Average Utilization: 86.9% 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	Status
Distribution Chicago, IL		1,818	3,368	96.8%	81.6%	Optimized
Center A Distribution Dallas, TX		1,213	2,746	99.4%	93.1%	Optimized
Center B Distribution Atlanta, GA	93.4%	2,984	1,617	97.3%	91.9%	Optimized
Center C Distribution Los Center D Angeles, CA	58.1% A	1,169	3,700	96.1%	74.4%	Improvemen t Needed
Distribution Newark, NJ Center E	100.5%	2,441	1,699	97.6%	93.7%	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