Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:43 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35

Average Utilization: 87.7% 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	Automatio Level	n Status
Distribution Chicago, IL		1,678	2,016	98.9%	83.0%	Optimized
Center A Distribution Dallas, TX	53.4%	1,201	3,790	98.3%	90.6%	Optimized
Center B Distribution Atlanta, GA	40.1%	2,733	3,406	97.7%	82.7%	Optimized
Center C Distribution Los	94.8%	1,852	1,608	95.6%	89.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 58.6%	1,898	3,933	95.6%	93.2%	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