Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:46 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 49

Average Utilization: 80.3% 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	79.7%	1,697	2,932	95.1%	92.9%	Optimized
Center A Distribution Dallas, TX Center B	38.3%	1,683	3,217	95.6%	79.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	105.6%	2,893	2,801	95.4%	73.4%	Improvemen t Needed
Distribution Los	107.2%	1,492	3,288	95.3%	84.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 50.7%	1,716	2,426	97.4%	71.1%	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