Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:55 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40

Average Utilization: 79.5% 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	44.0%	1,744	2,602	95.5%	92.7%	Optimized
Center A Distribution Dallas, TX	89.7%	2,366	2,095	95.2%	90.3%	Optimized
Center B Distribution Atlanta, GA Center C	63.7%	1,135	2,619	95.7%	72.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	56.2% \	1,351	2,368	96.2%	67.3%	Improvemen t Needed
Distribution Newark, NJ Center E	72.7%	1,254	3,587	98.8%	74.7%	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