Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:53 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36

Average Utilization: 78.1% 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	39.8%	1,214	2,599	97.3%	91.7%	Optimized
Center A Distribution Dallas, TX Center B	46.4%	2,662	2,831	97.4%	75.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	123.2%	1,993	1,759	96.1%	69.5%	Improvemen t Needed
Distribution Los	68.3%	1,770	2,439	98.9%	89.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	`70.6%	1,252	2,605	98.4%	64.3%	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