Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:04 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43

Average Utilization: 78.0% 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		2,024	3,336	95.1%	91.1%	Optimized
,		1,142	3,972	98.1%	94.1%	Optimized
Center B Distribution Atlanta, GA Center C	57.4%	1,943	3,927	98.6%	65.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	46.0% A	1,064	3,303	97.1%	73.8%	Improvemen t Needed
Distribution Newark, NJ Center E	85.1%	1,413	3,573	97.5%	65.9%	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