Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:14 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 38

Average Utilization: 75.7% 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	Automation Status Level	
Distribution Chicago, IL Center A	38.4%	2,399	3,084	97.2%	70.7%	Improvemen t Needed
Distribution Dallas, TX	55.7%	2,285	3,896	98.6%	80.1%	Optimized
Center B Distribution Atlanta, GA Center C	97.0%	1,725	1,909	95.8%	69.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	74.0% A	2,058	3,002	98.5%	69.5%	Improvemen t Needed
Distribution Newark, NJ Center E	44.2%	1,833	2,619	96.6%	88.7%	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