Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:32 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33

Average Utilization: 77.9% 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		2,999	3,755	97.0%	88.7%	Optimized
Center A Distribution Dallas, TX		1,411	2,257	97.4%	80.5%	Optimized
Center B Distribution Atlanta, GA Center C	83.5%	2,914	3,529	98.5%	71.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	93.8% \	1,387	2,682	96.1%	74.6%	Improvemen t Needed
Distribution Newark, NJ Center E	49.3%	1,359	2,863	98.6%	73.8%	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