Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:38 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 27

Average Utilization: 79.6% 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	n Status
Distribution Chicago, IL Center A	99.6%	2,695	3,510	95.4%	73.0%	Improvemen t Needed
Distribution Dallas, TX Center B	84.8%	2,306	3,221	97.7%	72.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	35.3%	1,890	3,279	96.9%	78.8%	Improvemen t Needed
Distribution Los	55.0%	1,175	1,677	98.9%	93.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 56.9%	2,165	3,773	97.8%	80.1%	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