Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:55 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 51

Average Utilization: 79.5% 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	47.7%	1,707	2,116	96.6%	74.7%	Improvemen t Needed
Distribution Dallas, TX Center B	71.9%	2,193	2,053	97.0%	74.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	57.2%	1,100	3,432	95.5%	72.4%	Improvemen t Needed
Distribution Los	80.8%	1,025	2,176	97.4%	89.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 71.0%	2,612	1,983	96.5%	87.0%	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