Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:34 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52

Average Utilization: 84.1% 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	64.6%	1,915	2,279	96.6%	89.8%	Optimized
Center A Distribution Dallas, TX		2,087	3,727	98.9%	83.4%	Optimized
Center B Distribution Atlanta, GA Center C	94.7%	1,219	3,450	98.0%	71.2%	Improvemen t Needed
Distribution Los	47.5%	1,986	2,581	98.5%	82.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 68.1%	1,699	3,968	96.4%	93.1%	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