Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:41 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 57

Average Utilization: 84.6% 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 Status Level	
Distrib Cente	oution Chicago, IL r A	83.2%	1,593	2,548	95.6%	77.5%	Improvemen t Needed
	oution Dallas, TX	50.1%	1,949	1,920	95.3%	94.0%	Optimized
	r B oution Atlanta, GA	65.9%	2,348	2,891	95.9%	93.3%	Optimized
Cente Cente	r C pution Los r D Angeles, C <i>l</i>	47.1% A	2,946	3,836	96.8%	68.3%	Improvemen t Needed
Distrib Cente	oution Newark, NJ r E	91.6%	2,804	3,829	99.3%	89.8%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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