Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:08 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62

Average Utilization: 80.2% 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	48.4%	2,823	1,539	96.5%	73.3%	Improvemen t Needed
,, ,	72.7%	1,801	3,163	97.6%	91.3%	Optimized
Center B Distribution Atlanta, GA	57.9%	1,676	1,780	96.9%	85.7%	Optimized
Center C Distribution Los	59.6%	2,351	3,601	95.4%	84.2%	Optimized
Center D Angeles, CA Center E	^A 67.1%	1,521	1,932	96.2%	66.4%	Improvemen t Needed

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