Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:05 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 30

Average Utilization: 79.3% 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		2,283	1,804	96.8%	80.3%	Optimized
Center A Distribution Dallas, TX		2,915	3,988	98.8%	80.6%	Optimized
Center B Distribution Atlanta, GA Center C	72.1%	2,765	2,400	95.5%	63.5%	Improvemen t Needed
Distribution Los	39.0%	2,563	2,465	99.5%	89.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 51.2%	1,110	1,823	96.5%	82.8%	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