Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:07 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 63

Average Utilization: 85.0% 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	Status
Distribution Chicago, IL		2,217	3,981	95.1%	80.7%	Optimized
Center A Distribution Dallas, TX		1,664	1,627	98.8%	90.7%	Optimized
Center B Distribution Atlanta, GA	91.1%	2,393	3,749	95.4%	89.0%	Optimized
Center C Distribution Los Center D Angeles, CA	79.2% \	2,589	3,569	95.7%	70.6%	Improvemen t Needed
Distribution Newark, NJ Center E	65.5%	2,716	3,899	97.5%	93.8%	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