Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5
Total Robots: 66

Average Utilization: 78.0% 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 Center A	57.5%	1,596	1,867	95.5%	75.0%	Improvemen t Needed
Distribution Dallas, TX Center B	114.0%	2,839	2,333	99.2%	74.5%	Improvemen t Needed
Distribution Atlanta, GA	49.1%	2,986	1,538	97.0%	80.3%	Optimized
Center C Distribution Los	46.0%	2,478	3,051	97.9%	93.7%	Optimized
Center E Angeles, CA Newark, NJ Center E	47.4%	1,209	2,226	98.6%	66.7%	Improvemen t Needed

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