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: 51

Average Utilization: 79.4% 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	52.7%	2,490	2,739	98.7%	71.4%	Improvemen t Needed
Distribution Dallas, TX	124.2%	2,009	3,550	95.0%	87.4%	Optimized
Center B Distribution Atlanta, GA	80.2%	2,118	1,535	99.5%	86.5%	Optimized
Center C Distribution Los Center D Angeles, CA	102.6% \	2,517	3,135	97.4%	75.7%	Improvemen t Needed
Distribution Newark, NJ Center E	51.8%	2,181	2,531	95.3%	75.9%	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