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: 45

Average Utilization: 78.4% 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	95.6%	1,812	1,843	99.4%	62.0%	Improvemen t Needed
Distribution Dallas, TX	96.7%	2,676	1,807	96.5%	91.7%	Optimized
Center B Distribution Atlanta, GA	75.2%	2,895	3,392	97.1%	88.9%	Optimized
Center C Distribution Los Center D Angeles, CA	92.4% A	1,748	2,650	99.3%	74.5%	Improvemen t Needed
Distribution Newark, NJ Center E	79.0%	2,457	3,108	98.4%	74.9%	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