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: 46

Average Utilization: 75.7% 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 Center A	42.0%	1,393	3,362	98.5%	77.2%	Improvemen t Needed
Distribution Dallas, TX Center B	63.2%	2,049	3,403	99.1%	68.8%	Improvemen t Needed
Distribution Atlanta, GA	53.6%	1,015	2,964	98.9%	81.5%	Optimized
Center C Distribution Los	72.5%	1,007	2,154	99.3%	81.0%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 88.7%	1,205	1,861	95.9%	69.8%	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