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: 53

Average Utilization: 77.3% 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	51.2%	1,959	3,605	98.4%	81.2%	Optimized
Center A Distribution Dallas, TX Center B	82.7%	1,365	3,315	95.2%	66.7%	Improvemen t Needed
Distribution Atlanta, GA	75.2%	1,188	1,788	97.6%	86.3%	Optimized
Center C Distribution Los	50.1%	2,498	2,216	97.2%	88.0%	Optimized
Center E Angeles, CA Center E	74.4%	2,430	3,751	97.8%	64.1%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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