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: 17

Average Utilization: 82.1% 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	75.2%	1,236	3,557	97.1%	74.2%	Improvemen t Needed
Distribution Dallas, TX Center B	95.1%	2,012	1,839	96.4%	64.5%	Improvemen t Needed
Distribution Atlanta, GA	65.6%	2,765	3,470	95.3%	86.2%	Optimized
Center C Distribution Los	47.3%	1,811	2,174	98.5%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 49.7%	1,029	3,700	96.4%	90.6%	Optimized

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