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: 79.6% 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	90.9%	2,328	3,177	96.7%	70.5%	Improvemen t Needed
Distribution Dallas, TX Center B	89.1%	2,312	2,041	97.6%	68.7%	Improvemen t Needed
Distribution Atlanta, GA	70.0%	2,118	3,660	96.4%	81.9%	Optimized
Center C Distribution Los	59.2%	1,002	1,695	96.2%	85.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 63.9%	2,550	3,934	98.5%	91.5%	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