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: 56

Average Utilization: 79.8% 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		2,212	2,544	98.6%	83.4%	Optimized
Center A Distribution Dallas, TX Center B	39.5%	2,548	3,705	96.1%	79.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	51.4%	2,199	3,500	99.3%	61.0%	Improvemen t Needed
Distribution Los	33.0%	1,206	2,683	96.1%	87.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 67.1%	2,208	3,011	95.4%	87.3%	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