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: 43

Average Utilization: 79.9% 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	85.3%	1,061	1,616	96.4%	70.0%	Improvemen t Needed
Distribution Dallas, TX	82.3%	1,572	1,558	96.7%	84.7%	Optimized
Center B Distribution Atlanta, GA	100.0%	2,284	2,484	99.4%	82.8%	Optimized
Center C Distribution Los Center D Angeles, CA	51.5% \	1,666	1,644	98.1%	70.5%	Improvemen t Needed
Distribution Newark, NJ Center E	74.0%	1,559	3,706	95.3%	91.6%	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