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: 48

Average Utilization: 82.2% 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	39.3%	1,889	3,175	96.1%	66.5%	Improvemen t Needed
Distribution Dallas, TX	40.3%	2,286	3,072	95.8%	89.6%	Optimized
Center B Distribution Atlanta, GA	97.8%	1,876	3,291	97.6%	89.1%	Optimized
Center C Distribution Los	68.7%	2,332	3,794	99.2%	89.0%	Optimized
Center E Angeles, CA Center E	^A 59.8%	1,577	2,176	98.7%	76.8%	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