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: 31

Average Utilization: 82.8% 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	n Status
Distribution Chicago, IL Center A	58.7%	1,321	3,854	96.6%	70.8%	Improvemen t Needed
Distribution Dallas, TX	72.9%	2,932	2,372	96.4%	91.0%	Optimized
Center B Distribution Atlanta, GA	103.7%	2,281	3,794	98.1%	94.2%	Optimized
Center C Distribution Los	41.5%	2,633	2,346	95.8%	87.9%	Optimized
Center D Angeles, CA Center E	^A 107.8%	2,835	2,165	97.5%	70.3%	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