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: 32

Average Utilization: 82.9% 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	Status
Distribution Chicago, IL	78.9%	2,214	2,336	96.0%	84.9%	Optimized
Center A Distribution Dallas, TX		1,360	2,923	95.3%	95.0%	Optimized
Center B Distribution Atlanta, GA	77.8%	2,771	3,619	98.6%	81.2%	Optimized
Center C Distribution Los Center D Angeles, CA	112.4% \	1,413	1,875	95.1%	75.6%	Improvemen t Needed
Distribution Newark, NJ Center E	97.9%	2,491	3,351	96.4%	77.8%	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