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: 80.7% 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	81.3%	2,333	1,569	95.4%	87.2%	Optimized
Center A Distribution Dallas, TX		1,585	2,462	95.4%	93.4%	Optimized
Center B Distribution Atlanta, GA Center C	79.1%	2,492	3,109	97.4%	62.4%	Improvemen t Needed
Distribution Los	82.5%	1,574	3,911	95.1%	83.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 59.7%	2,137	2,354	99.0%	77.0%	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