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: 45

Average Utilization: 81.9% 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	73.9%	1,302	3,817	96.7%	83.4%	Optimized
Center A Distribution Dallas, TX		1,669	3,782	97.6%	90.6%	Optimized
Center B Distribution Atlanta, GA	87.4%	2,201	2,242	99.2%	91.4%	Optimized
Center C Distribution Los Center D Angeles, CA	92.4% \	2,781	2,492	99.3%	76.2%	Improvemen t Needed
Distribution Newark, NJ Center E	73.8%	1,472	1,896	99.4%	68.0%	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