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: 58

Average Utilization: 77.2% 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	Status
Distribution Chicago, IL Center A	49.5%	1,292	3,133	96.7%	60.8%	Improvemen t Needed
Distribution Dallas, TX	53.6%	2,077	2,283	95.9%	81.4%	Optimized
Center B Distribution Atlanta, GA	78.5%	2,044	2,937	98.8%	85.3%	Optimized
Center C Distribution Los Center D Angeles, CA	55.6% \	1,977	3,458	97.4%	74.6%	Improvemen t Needed
Distribution Newark, NJ Center E	69.7%	2,007	3,384	97.4%	84.1%	Optimized

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