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: 37

Average Utilization: 78.1% 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		2,265	3,468	96.1%	85.7%	Optimized
Center A Distribution Dallas, TX Center B	58.7%	1,297	2,573	98.5%	76.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	112.6%	1,363	3,391	96.0%	61.2%	Improvemen t Needed
Distribution Los	68.1%	1,697	2,729	97.4%	84.9%	Optimized
Center E Angeles, CA Newark, NJ Center E	¹ 77.1%	1,969	2,812	97.2%	82.4%	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