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: 33

Average Utilization: 83.0% 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		1,399	2,901	97.6%	85.5%	Optimized
Center A Distribution Dallas, TX		1,028	2,783	95.6%	93.2%	Optimized
Center B Distribution Atlanta, GA Center C	109.0%	2,815	2,204	96.3%	66.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	35.8% \	2,594	1,828	97.6%	79.9%	Improvemen t Needed
Distribution Newark, NJ Center E	70.2%	1,235	2,561	96.3%	90.4%	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