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: 55

Average Utilization: 78.2% 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	85.8%	1,419	3,472	95.7%	84.2%	Optimized
Center A Distribution Dallas, TX		1,642	3,636	96.3%	89.7%	Optimized
Center B Distribution Atlanta, GA	69.2%	1,430	3,064	99.3%	82.6%	Optimized
Center C Distribution Los Center D Angeles, CA	53.5% \	2,302	2,236	95.2%	71.6%	Improvemen t Needed
Distribution Newark, NJ Center E	81.7%	1,881	2,008	98.9%	63.0%	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