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: 64

Average Utilization: 79.9% 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	64.2%	2,735	3,529	97.1%	85.3%	Optimized
Center A Distribution Dallas, TX		2,142	3,100	99.3%	90.7%	Optimized
Center B Distribution Atlanta, GA	51.7%	1,741	1,555	99.3%	91.6%	Optimized
Center C Distribution Los Center D Angeles, CA	35.1% \	2,804	2,504	96.0%	62.8%	Improvemen t Needed
Distribution Newark, NJ Center E	70.9%	1,703	3,605	96.2%	69.2%	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