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: 42

Average Utilization: 81.2% 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	62.8%	1,052	2,966	97.3%	86.3%	Optimized
Center A Distribution Dallas, TX		1,908	3,602	98.9%	94.9%	Optimized
Center B Distribution Atlanta, GA Center C	64.1%	2,988	3,532	95.3%	69.7%	Improvemen t Needed
Distribution Los	55.8%	2,585	2,627	98.3%	91.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^A 62.1%	1,637	3,412	95.5%	63.6%	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