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: 82.0% 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		2,078	3,912	98.3%	88.3%	Optimized
Center A Distribution Dallas, TX		1,795	3,594	98.3%	90.8%	Optimized
Center B Distribution Atlanta, GA Center C	61.3%	2,928	2,688	97.0%	66.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	65.4% A	1,501	1,789	96.9%	76.8%	Improvemen t Needed
Distribution Newark, NJ Center E	42.6%	1,589	3,624	99.1%	87.2%	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