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: 43

Average Utilization: 79.7% 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 Status Level	
	Distribution Chicago, IL Center A	50.9%	2,945	3,394	96.7%	73.1%	Improvemen t Needed
	Distribution Dallas, TX	70.2%	1,551	1,546	99.4%	87.0%	Optimized
	Center B Distribution Atlanta, GA	77.4%	1,773	3,190	97.5%	80.7%	Optimized
	Center C Distribution Los Center D Angeles, C <i>i</i>	70.8% A	2,373	3,706	97.4%	67.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	47.8%	1,666	3,406	97.5%	89.7%	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