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: 29

Average Utilization: 79.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/ Day	nd/ Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, Center A	IL 74.8%	1,258	3,677	97.1%	60.8%	Improvemen t Needed
	Distribution Dallas, T		1,898	3,769	96.8%	94.2%	Optimized
	Center B Distribution Atlanta, C	SA 83.8%	1,703	2,648	97.2%	93.9%	Optimized
	Center C Distribution Los Center D Angeles,	32.6% CA	1,782	3,604	96.7%	65.8%	Improvemen t Needed
	Distribution Newark, Center E	NJ 54.8%	2,533	2,521	98.2%	82.2%	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