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: 47

Average Utilization: 77.5% 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	68.2%	2,866	1,773	97.7%	84.1%	Optimized
	Center A Distribution Dallas, TX Center B	59.1%	2,132	3,046	97.5%	73.2%	Improvemen t Needed
	Distribution Atlanta, GA Center C	40.8%	2,553	2,149	99.4%	69.2%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	71.9% A	2,950	3,959	97.1%	74.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	71.4%	1,250	3,865	98.9%	86.4%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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