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: 44

Average Utilization: 78.8% 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	72.1%	1,930	2,017	97.5%	81.3%	Optimized
	Center A Distribution Dallas, TX Center B	43.0%	1,317	3,406	98.4%	76.6%	Improvemen t Needed
	Distribution Atlanta, GA Center C	59.2%	2,402	2,425	95.6%	78.4%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	53.5% A	1,713	1,745	99.2%	67.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	39.9%	1,625	3,986	98.2%	90.2%	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