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	68.1%	1,636	3,728	97.6%	83.2%	Optimized
	Center A Distribution Dallas, TX Center B	133.1%	1,304	2,232	95.2%	79.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	61.0%	2,074	3,080	95.1%	75.4%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	45.2% \	2,678	3,411	98.4%	62.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	57.5%	1,935	3,486	98.1%	87.2%	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