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: 35

Average Utilization: 71.6% 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	117.2%	1,212	3,565	95.9%	82.2%	Optimized
	Center A Distribution Dallas, TX Center B	96.8%	2,527	3,487	95.8%	65.9%	Improvemen t Needed
	Distribution Atlanta, GA Center C	45.6%	1,861	1,941	99.1%	60.1%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	97.2% A	2,577	1,608	95.2%	61.5%	Improvemen t Needed
	Distribution Newark, NJ Center E	77.9%	2,640	3,693	98.3%	88.2%	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