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: 43

Average Utilization: 74.7% 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 Center A	54.4%	2,777	3,505	95.1%	70.6%	Improvemen t Needed
	Distribution Dallas, TX	98.0%	2,612	3,259	98.9%	84.4%	Optimized
	Center B Distribution Atlanta, GA Center C	94.4%	2,323	3,526	98.9%	64.3%	Improvemen t Needed
	Distribution Los	44.7%	1,468	1,744	95.4%	85.6%	Optimized
	Center E Angeles, CA Newark, NJ Center E	^ 69.0%	1,240	1,975	95.8%	68.8%	Improvemen t Needed

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