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: 40

Average Utilization: 77.9% 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	83.1%	1,560	2,007	98.2%	81.6%	Optimized
	,	66.1%	2,728	3,387	95.9%	94.9%	Optimized
	Center B Distribution Atlanta, GA Center C	60.8%	2,288	1,969	99.4%	67.5%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	75.2% \	1,221	3,248	96.5%	77.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	72.3%	2,055	2,562	98.7%	68.0%	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