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: 63

Average Utilization: 74.8% 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		2,998	3,890	99.0%	83.5%	Optimized
	Center A Distribution Dallas, TX		2,674	3,979	96.8%	84.0%	Optimized
	Center B Distribution Atlanta, GA Center C	54.4%	1,577	3,751	98.5%	71.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	110.4% \	2,229	2,342	97.9%	71.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	76.2%	1,283	3,454	95.9%	63.9%	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