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: 55

Average Utilization: 74.9% 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	117.6%	2,062	2,047	96.9%	90.4%	Optimized
	Center A Distribution Dallas, TX Center B	42.8%	2,015	3,791	98.7%	61.6%	Improvemen t Needed
	Distribution Atlanta, GA Center C	75.7%	2,569	2,221	95.5%	64.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	52.2% \	2,964	3,270	98.4%	77.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	109.4%	2,457	2,803	98.6%	81.0%	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