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: 37

Average Utilization: 76.9% 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 Center A	Chicago, IL	53.7%	2,796	2,975	97.7%	77.9%	Improvemen t Needed
	Distribution	,	63.3%	2,141	2,807	95.4%	86.2%	Optimized
	Center B Distribution		35.7%	2,116	2,976	96.7%	83.3%	Optimized
	Center C Distribution Center D	Los Angeles, CA	72.9% \	2,310	2,726	98.0%	60.3%	Improvemen t Needed
	Distribution Center E	Newark, NJ	69.2%	2,523	1,799	96.5%	76.9%	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