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: 27

Average Utilization: 75.2% 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	123.7%	2,762	2,846	99.1%	72.0%	Improvemen t Needed
	Distribution	•	51.2%	1,673	3,316	95.5%	85.4%	Optimized
	Center B Distribution		68.9%	1,032	1,895	98.4%	93.5%	Optimized
	Center C Distribution Center D	Los Angeles, CA	72.5% A	2,498	2,116	95.0%	60.8%	Improvemen t Needed
	Distribution Center E	Newark, NJ	44.0%	1,565	3,539	99.3%	64.5%	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