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: 36

Average Utilization: 75.9% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location	n Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chicago Center A	, IL 73.2%	2,421	2,102	95.8%	65.5%	Improvemen t Needed
Distribution Dallas, T		2,818	1,852	97.7%	85.0%	Optimized
Center B Distribution Atlanta, Center C	GA 94.1%	2,178	2,440	95.1%	72.3%	Improvemen t Needed
Distribution Los Center D Angeles	54.0% , CA	1,947	3,284	97.9%	67.2%	Improvemen t Needed
Distribution Newark, Center E	NJ 97.5%	1,693	3,555	96.2%	89.5%	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