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: 54

Average Utilization: 75.5% 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 Center A	60.9%	1,266	3,076	97.7%	62.6%	Improvemen t Needed
Distribution Dallas, TX	106.5%	1,592	3,199	99.2%	91.7%	Optimized
Center B Distribution Atlanta, GA Center C	45.0%	1,880	3,317	99.2%	62.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	122.9% \	1,725	2,567	99.1%	77.5%	Improvemen t Needed
Distribution Newark, NJ Center E	76.7%	1,890	1,644	99.1%	83.4%	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