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: 33

Average Utilization: 78.2% 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 Chicago, IL Center A	122.8%	2,779	3,439	95.1%	70.2%	Improvemen t Needed
Distribution Dallas, TX	57.7%	2,552	2,715	97.9%	91.5%	Optimized
Center B Distribution Atlanta, GA Center C	67.2%	2,458	3,071	98.0%	71.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	128.7% A	1,027	3,085	98.1%	64.5%	Improvemen t Needed
Distribution Newark, NJ Center E	62.9%	2,912	2,322	95.6%	93.4%	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