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: 76.8% 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	115.2%	2,022	2,670	98.0%	67.8%	Improvemen t Needed
Distribution Dallas, TX	110.7%	2,459	2,396	96.2%	83.6%	Optimized
Center B Distribution Atlanta, GA Center C	99.3%	2,050	3,598	98.4%	77.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	49.5% A	2,697	1,539	95.2%	64.2%	Improvemen t Needed
Distribution Newark, NJ Center E	76.0%	2,917	2,701	98.9%	90.3%	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