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: 52

Average Utilization: 75.0% 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 Level	n Status
Distribution Chicago, IL Center A	122.3%	1,477	2,406	95.6%	60.2%	Improvemen t Needed
Distribution Dallas, TX Center B	74.4%	2,955	2,652	99.3%	73.9%	Improvemen t Needed
Distribution Atlanta, GA	46.3%	2,605	3,749	97.6%	86.2%	Optimized
Center C Distribution Los Center D Angeles, CA	44.0% A	2,416	3,141	98.2%	60.7%	Improvemen t Needed
Distribution Newark, NJ Center E	42.7%	1,077	3,948	97.9%	93.9%	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