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: 84.7% 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	51.5%	2,833	3,642	95.5%	93.2%	Optimized
Center A Distribution Dallas, TX		2,045	2,780	96.2%	81.7%	Optimized
Center B Distribution Atlanta, GA	71.5%	2,571	1,921	97.5%	83.0%	Optimized
Center C Distribution Los	89.8%	2,927	1,568	98.9%	87.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 107.1%	1,099	3,212	95.6%	78.1%	Improvemen t Needed

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