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: 45

Average Utilization: 76.1% 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	Status
Distribution Chicago, IL Center A	63.3%	1,984	2,623	98.4%	79.0%	Improvemen t Needed
Distribution Dallas, TX	87.0%	2,287	3,016	96.2%	84.4%	Optimized
Center B Distribution Atlanta, GA	39.8%	1,853	2,121	96.1%	85.4%	Optimized
Center C Distribution Los Center D Angeles, CA	106.6% \	1,869	1,771	96.1%	67.2%	Improvemen t Needed
Distribution Newark, NJ Center E	93.1%	2,641	2,171	99.1%	64.5%	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