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: 21

Average Utilization: 74.3% 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	72.8%	1,045	2,386	99.0%	61.1%	Improvemen t Needed
Distribution Dallas, TX Center B	68.6%	1,011	2,228	97.5%	65.3%	Improvemen t Needed
Distribution Atlanta, GA	109.8%	2,921	3,600	96.0%	83.7%	Optimized
Center C Distribution Los	107.6%	2,216	2,691	99.4%	89.9%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 36.0%	2,940	1,557	98.5%	71.8%	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