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: 53

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	Status
Distribution Chicago, IL Center A	86.6%	1,699	2,808	96.7%	79.9%	Improvemen t Needed
Distribution Dallas, TX Center B	77.8%	2,594	3,608	98.5%	71.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	67.6%	2,556	2,495	97.5%	65.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	67.1% \	2,581	3,019	99.2%	74.5%	Improvemen t Needed
Distribution Newark, NJ Center E	66.0%	1,662	3,953	96.6%	80.7%	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