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: 57

Average Utilization: 74.0% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		•		Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL Center A	40.0%	2,250	3,019	95.3%	76.6%	Improvemen t Needed
	Distribution Dallas, TX Center B	72.4%	2,121	3,554	97.8%	62.2%	Improvemen t Needed
	Distribution Atlanta, GA	89.7%	2,089	2,427	95.3%	93.2%	Optimized
	Center C Distribution Los Center D Angeles, CA	120.1% \	1,152	3,181	98.5%	73.6%	Improvemen t Needed
	Distribution Newark, NJ Center E	59.4%	2,370	3,318	95.5%	64.3%	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