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: 48

Average Utilization: 74.6% 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 Status Level	
		Chicago, IL	44.7%	2,348	1,641	95.2%	88.4%	Optimized
	enter A istribution enter B	Dallas, TX	34.9%	1,888	3,967	96.0%	65.9%	Improvemen t Needed
	istribution enter C	Atlanta, GA	39.2%	2,913	2,584	96.7%	68.0%	Improvemen t Needed
	istribution enter D	Los Angeles, CA	108.6% \	2,195	2,706	96.0%	71.8%	Improvemen t Needed
	istribution enter E	Newark, NJ	47.9%	2,519	2,913	98.3%	79.1%	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