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: 55

Average Utilization: 65.4% 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	
Distribution Chic Center A	cago, IL	82.1%	1,244	2,283	99.5%	68.1%	Improvemen t Needed
Distribution Dall Center B	as, TX	47.4%	1,955	3,859	95.1%	72.6%	Improvemen t Needed
Distribution Atla Center C	nta, GA	115.2%	2,927	2,128	98.3%	61.7%	Improvemen t Needed
Distribution Los Center D Ang	jeles, C <i>l</i>	72.3% A	2,715	2,498	96.5%	64.4%	Improvemen t Needed
Distribution Nev Center E	vark, NJ	87.3%	2,479	2,028	98.7%	60.1%	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