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: 49

Average Utilization: 71.6% 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	
	Distribution Chicago, IL	50.5%	1,434	3,111	98.7%	89.9%	Optimized
	,	60.4%	2,313	1,983	99.4%	81.9%	Optimized
	Center B Distribution Atlanta, GA Center C	47.9%	2,454	2,095	98.2%	62.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	44.3% A	2,091	3,621	98.5%	63.3%	Improvemen t Needed
	Distribution Newark, NJ Center E	72.0%	1,001	2,347	96.1%	60.5%	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