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: 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	35.8%	2,080	1,604	96.4%	74.8%	Improvemen t Needed
	55.7%	1,785	2,880	99.1%	86.7%	Optimized
Center B Distribution Atlanta, GA Center C	69.9%	2,586	3,321	95.7%	60.0%	Improvemen t Needed
Distribution Los	63.1%	2,789	1,941	98.5%	83.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	43.0%	1,154	3,068	98.7%	66.1%	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