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: 56

Average Utilization: 77.8% 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	n Status
Distribution Chicago, IL Center A	105.2%	1,949	3,428	96.2%	60.4%	Improvemen t Needed
Distribution Dallas, TX	47.5%	2,573	1,643	96.8%	93.5%	Optimized
Center B Distribution Atlanta, GA Center C	81.1%	2,320	2,428	97.5%	71.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	41.4%	2,725	3,772	97.8%	94.7%	Optimized
	¹ 89.9%	1,196	2,418	95.7%	68.6%	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