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: 41

Average Utilization: 78.1% 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	93.9%	2,508	3,799	99.1%	74.4%	Improvemen t Needed
Distribution Dallas, TX	60.0%	2,127	1,989	95.7%	93.3%	Optimized
Center B Distribution Atlanta, GA Center C	33.6%	1,105	2,930	98.5%	68.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	56.0%	1,720	3,334	98.4%	86.0%	Optimized
	⁴ 83.5%	1,654	3,036	95.4%	68.4%	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