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: 46

Average Utilization: 75.0% 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 Center A	87.2%	2,857	2,684	95.2%	72.7%	Improvemen t Needed
Distribution Dallas, TX	37.5%	2,517	2,680	95.2%	81.6%	Optimized
Center B Distribution Atlanta, GA Center C	109.7%	2,232	2,756	98.6%	70.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	97.0% A	1,632	3,910	97.9%	67.8%	Improvemen t Needed
Distribution Newark, NJ Center E	125.0%	1,661	1,719	97.3%	82.2%	Optimized

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