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: 54

Average Utilization: 79.4% 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	121.4%	2,480	2,541	97.5%	78.9%	Improvemen t Needed
Distribution Dallas, TX Center B	111.9%	1,500	3,827	97.8%	77.7%	Improvemen t Needed
Distribution Atlanta, GA	55.8%	2,430	1,870	95.6%	85.8%	Optimized
Center C Distribution Los Center D Angeles, CA	114.1% \	1,043	2,876	99.4%	62.7%	Improvemen t Needed
Distribution Newark, NJ Center E	124.6%	1,104	3,763	97.2%	92.0%	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