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: 62

Average Utilization: 79.2% 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	66.1%	2,810	2,040	99.1%	70.1%	Improvemen t Needed
Distribution Dallas, TX Center B	41.2%	2,851	2,619	95.1%	65.2%	Improvemen t Needed
Distribution Atlanta, GA	52.8%	1,810	2,736	97.6%	86.8%	Optimized
Center C Distribution Los Center D Angeles, CA	56.1% A	1,041	3,500	97.3%	79.5%	Improvemen t Needed
Distribution Newark, NJ Center E	47.0%	1,789	3,392	97.9%	94.5%	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