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: 36

Average Utilization: 83.7% 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	39.2%	2,149	1,759	95.5%	66.5%	Improvemen t Needed
Distribution Dallas, TX	80.1%	1,107	1,984	95.6%	80.0%	Optimized
Center B Distribution Atlanta, GA	56.8%	1,592	1,568	95.9%	91.7%	Optimized
Center C Distribution Los	33.2%	2,147	3,967	96.2%	90.1%	Optimized
Center D Angeles, C Center E	^A 110.3%	1,912	3,124	95.6%	90.2%	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