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: 64

Average Utilization: 85.1% 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	Status
Distribution Chicago, IL	68.6%	2,141	2,787	99.0%	87.9%	Optimized
Center A Distribution Dallas, TX		1,922	3,652	96.6%	81.2%	Optimized
Center B Distribution Atlanta, GA	66.5%	2,169	2,100	98.2%	94.8%	Optimized
Center C Distribution Los Center D Angeles, CA	68.4% \	1,292	1,727	97.0%	73.5%	Improvemen t Needed
Distribution Newark, NJ Center E	43.6%	1,935	2,691	96.1%	88.1%	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