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: 47

Average Utilization: 84.7% 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	Status
Distribution Chicago, IL	77.2%	1,841	3,247	98.4%	89.7%	Optimized
Center A Distribution Dallas, TX		2,355	1,856	95.0%	86.4%	Optimized
Center B Distribution Atlanta, GA	123.8%	1,239	2,387	96.9%	85.4%	Optimized
Center C Distribution Los Center D Angeles, CA	58.6% A	2,343	1,964	95.8%	70.8%	Improvemen t Needed
Distribution Newark, NJ Center E	66.8%	1,477	1,685	98.0%	91.1%	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