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: 38

Average Utilization: 78.4% 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		2,411	2,265	98.0%	86.7%	Optimized
Center A Distribution Dallas, TX Center B	57.7%	2,585	2,014	98.1%	78.0%	Improvemen t Needed
Distribution Atlanta, GA	78.4%	2,489	3,511	95.8%	92.5%	Optimized
Center C Distribution Los Center D Angeles, CA	49.9% \	1,777	2,194	95.9%	61.6%	Improvemen t Needed
Distribution Newark, NJ Center E	73.4%	2,275	2,006	97.5%	73.3%	Improvemen t Needed

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