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: 39

Average Utilization: 75.6% 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	67.5%	2,084	3,382	95.4%	82.2%	Optimized
Center A Distribution Dallas, TX Center B	112.0%	1,765	3,941	96.0%	78.9%	Improvemen t Needed
Distribution Atlanta, GA	50.5%	2,252	1,806	97.7%	86.4%	Optimized
Center C Distribution Los Center D Angeles, CA	50.6% \	1,108	3,276	96.4%	64.1%	Improvemen t Needed
Distribution Newark, NJ Center E	99.2%	2,241	2,625	96.4%	66.3%	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