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: 48

Average Utilization: 75.8% 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		1,384	1,815	98.2%	84.9%	Optimized
Center A Distribution Dallas, TX Center B	71.8%	2,991	3,703	99.4%	79.6%	Improvemen t Needed
Distribution Atlanta, GA	62.4%	1,852	2,197	95.2%	80.3%	Optimized
Center C Distribution Los Center D Angeles, CA	65.0% \	2,834	2,793	95.2%	62.7%	Improvemen t Needed
Distribution Newark, NJ Center E	67.6%	2,189	2,245	96.2%	71.7%	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