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: 27

Average Utilization: 85.7% 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	46.0%	2,783	2,948	96.5%	88.9%	Optimized
Center A Distribution Dallas, TX	38.1%	2,628	1,913	96.6%	91.7%	Optimized
Center B Distribution Atlanta, GA	53.4%	1,042	2,717	96.2%	90.8%	Optimized
Center C Distribution Los	63.2%	1,681	3,926	98.4%	94.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	40.3%	1,931	3,901	96.1%	63.3%	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