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: 51

Average Utilization: 76.4% 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	n Status
Distribution Chicago, IL Center A	91.2%	2,629	2,205	97.7%	66.2%	Improvemen t Needed
Distribution Dallas, TX Center B	45.7%	1,974	2,188	98.6%	76.1%	Improvemen t Needed
Distribution Atlanta, GA	91.1%	2,272	2,417	95.9%	84.5%	Optimized
Center C Distribution Los	94.6%	2,177	2,091	95.8%	87.3%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 93.6%	1,118	1,803	95.2%	68.0%	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