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: 42

Average Utilization: 80.1% 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	61.1%	2,839	2,194	97.2%	76.2%	Improvemen t Needed
Distribution Dallas, TX Center B	31.3%	1,463	2,481	96.4%	65.8%	Improvemen t Needed
Distribution Atlanta, GA	38.5%	2,337	2,101	96.9%	90.7%	Optimized
Center C Distribution Los	75.6%	2,448	1,990	95.3%	88.0%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 87.6%	2,208	2,156	98.0%	79.9%	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