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: 38

Average Utilization: 80.4% 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	36.7%	1,110	1,571	96.2%	76.0%	Improvemen t Needed
Distribution Dallas, TX Center B	51.9%	1,106	2,935	97.7%	78.3%	Improvemen t Needed
Distribution Atlanta, GA	69.9%	1,209	3,717	95.2%	83.9%	Optimized
Center C Distribution Los	91.2%	1,371	1,584	99.0%	87.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 66.4%	2,685	2,350	98.3%	76.0%	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