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: 52

Average Utilization: 81.5% 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	57.1%	1,882	3,217	96.7%	76.6%	Improvemen t Needed
Distribution Dallas, TX Center B	80.2%	2,212	2,592	97.8%	77.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	71.5%	1,769	1,638	95.5%	72.7%	Improvemen t Needed
Distribution Los	51.6%	2,493	3,948	96.2%	86.6%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 80.3%	1,658	2,753	98.5%	93.8%	Optimized

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