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: 69

Average Utilization: 79.7% 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 Center A	120.1%	2,655	2,144	96.8%	72.0%	Improvemen t Needed
,,	72.3%	2,344	2,499	96.2%	92.2%	Optimized
Center B Distribution Atlanta, GA Center C	120.7%	2,755	1,537	96.5%	67.4%	Improvemen t Needed
Distribution Los	40.4%	1,852	2,155	97.3%	92.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	90.2%	2,729	1,856	96.3%	75.2%	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