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: 63

Average Utilization: 77.2% 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	90.6%	2,276	1,649	97.1%	93.8%	Optimized
Center A Distribution Dallas, TX Center B	122.0%	2,751	3,939	97.5%	68.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	71.1%	1,332	2,245	96.7%	67.9%	Improvemen t Needed
Distribution Los	50.4%	2,223	2,981	97.3%	86.5%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	¹ 75.5%	1,556	2,118	96.9%	69.4%	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