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: 57

Average Utilization: 80.3% 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	80.3%	1,812	2,186	98.0%	90.8%	Optimized
Center A Distribution Dallas, TX Center B	67.2%	2,009	2,064	98.3%	77.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	52.9%	2,785	2,163	98.8%	79.4%	Improvemen t Needed
Distribution Los	84.2%	1,707	1,954	98.3%	85.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 64.4%	2,904	2,550	99.4%	68.9%	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